

**WENG KEE WONG**

Department of Biostatistics  
 Fielding School of Public Health, UCLA  
 10833 Le Conte Ave, Los Angeles, CA 90095-1772  
 email address: [wk Wong@ucla.edu](mailto:wk Wong@ucla.edu); Tel: (310) 206 9622; Fax: (310) 267 2113

**Education:**

BSc Hons	1983	Mathematics	National University of Singapore, Singapore
M. S.	1985	Mathematics	University of Wisconsin
M. S.	1989	Statistics	University of Minnesota
Ph. D.	1990	Statistics	University of Minnesota

**Position**

1990-1996	Assistant professor, Department of Biostatistics, UCLA
1996-1999	Associate Professor, Department of Biostatistics, UCLA
1999-	Professor, Department of Biostatistics, UCLA

**Honors**

1992	Elected Member, Delta Omega Public Health Honor Society
2006	External Reviewer, Department of Applied Mathematics and Statistics, SUNY at Stony-Brook.
2007	Elected Fellow, The American Statistical Association
2007	Elected Member, The International Statistical Institute
2011	Member, Scientific Advisory Committee for a 6-month Design and Analysis of Experiments Workshop at the Isaac Newton Institute for Mathematical Sciences, Cambridge, England, 18 <sup>th</sup> July-21 <sup>st</sup> December.
2011	Elected Fellow, Institute of Mathematical Statistics
2012	Elected Fellow, The American Association for the Advancement of Science (AAAS)
2020-2023	Yushan Scholar - the highest honor given by the Taiwan Ministry of Education for an overseas visiting Professor

**Visiting Positions**

Department of Statistics, Guangzhou University, Guangzhou, China. 11-29 November, 2011  
 Isaac Newton Institute for Mathematical Sciences, Cambridge, England, 18 July-21 December, 2011  
 Department of Statistics, Stockholm University, Stockholm, Sweden. March 17-1 April, 2012  
 Department of Probability and Applied Statistics, National University of Singapore, Singapore. 14-30 June, 2012, 18-29 Dec, 2019.  
 Department of Mathematics, National Taiwan University, Taipei, Taiwan. 1-10 July, 2012  
 Department of Statistics, Guangzhou University, Guangzhou, China. 10-16 December, 2012, 11-16 December, 2013  
 Department of Industrial Engineering, St Universidad de Castilla la Mancha, Spain. 15-24 March and 20 August-20 September, 2015, 20 June-21 July, 2016  
 Department of Statistics, National Cheng Kung University, Tainan, Taiwan, September-October, 8 November-2 December, 2013, 6-18, December, 2016  
 Department of Industrial Engineering, St Universidad de Castilla la Mancha, Spain. 15-24 March and 20 August-20 September, 2015, 20 June-21 July, 2016

**Editorships**

- 1 Member, Editorial Board for the Journal of Statistical Planning and Inference-special issue; "Experimental Design Theory" at the 2<sup>nd</sup> Symposium on Simulation at St. Petersburg State University, Russia, 1996
- 2 Associate Editor, Biometrics, 2000-2010
- 3 Associate Editor, Statistica Sinica, 2000-2002
- 4 Associate Editor, Communications in Statistics, Simulation and Computation, 2003-2018
- 5 Associate Editor, Communications in Statistics, Theory and Methods, 2003-2018
- 6 Associate Editor, Advances and Applications in Statistical Sciences, 2008-present
- 7 Guest Editor, Special Issue in "Advances in Statistical Methodology for Analyzing Rheumatic Diseases", Communications in Statistics-Theory and Methods, 2009
- 8 Associate Editor, Biostatistics, Bioinformatics and Biomathematics, 2009-present
- 9 Associate Editor, ISRN Rheumatology, 2010-2013
- 10 Associate Editor, Journal of Biometrics and Biostatistics, 2010-present
- 11 Associate Editor, Journal of Data Science, 2011-2014
- 12 Associate Editor, Journal of Statistical Planning and Inference, 2011-2021

9/1/2021

- 13 Associate Editor, Statistical Methods for Medical Research, 2012-present
- 14 Associate Editor, Pioneer Journal of Theoretical and Applied Statistics, 2016-present
- 15 Associate Editor, Test (The Statistical Journal of Spain), 2017-present
- 16 Member, Member, Quantum Computing Committee, American Statistician Association
- 17 Member, PLOS ONE Statistical Advisory Board, 2019-present (reviews about 4 papers per month)
- 18 Member, Editorial Board, Annals of Public Health and Research, 2021-present

### Special Invited Lectures

- 1998 Keynote Speaker, Conference in Applied Statistics, Salamanca, University of Salamanca, Spain, 6-10, July. Talk Title: Biostatistics in USA: Training programs and Opportunities in the Health Sciences.
- 2004 Keynote Speaker, 14<sup>th</sup> Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS) Conference, University of Maastricht, The Netherlands, 9-10 December. Talk Title: An Overview and Recent Advances in Optimal Design of Experiments with Applications.
- 2004 Invited Speaker, Toxicology Program, Department of Environment Health Services, UCLA.
- 2008 Nominated Distinguished Speaker, Pacific Institute of Mathematical Sciences, University of Victoria, British Columbia, Canada, November, 19 September. Talk title: Recent Advances in Optimal Experimental Designs.
- 2009 Plenary Speaker, International Conference on Experimental Designs, Guangzhou University, Guangzhou, China, 17-19 July. Talk Title: Optimal Experimental Designs.
- 2009 Nominated Invited Speaker, Signature Seminar Series, Duke University-National University of Singapore Graduate Medical School, Singapore, 3 November. Talk title: Optimal Design Techniques for the Health Sciences.
- 2011 Nominated Invited Speaker for the Academy Colloquium at the Royal Netherlands Academy of Arts and Sciences, Amsterdam, 26-28 April. Talk title: Multiple-Objective Optimal Designs.
- 2012 Keynote Speaker, Annual Joint Biostatistics Symposium sponsored by Ohio State University-Cleveland Clinic Foundation-Case Western Reserve University, The Ohio State University, Columbus, Ohio. 17 May Talk Title: Nature-Inspired Meta-Heuristic Algorithms for Generating Optimal Experiment Designs.
- 2012 Invited Speaker, Undergraduate Colloquium for the Mathematical Sciences, Department of Mathematics and Statistics, Loyola University, Chicago, September 10. Talk Title: Using Animal Instincts to Design More Efficient Drug Studies.
- 2012 Instructor, 1-day Short Course. Amgen Inc., Thousand Oaks, California. November 6. Course Title: Optimal Dose Response Designs.
- 2014 Invited Speaker, Joint Statistics and Biostatistics Departments Seminar, UC Davis, 22 April. Talk Title: Using Animal Instincts to Design More Efficient Drug Studies.
- 2014 Invited Biostatistics Workshop Speaker, Stanford University, May 15.
- 2015 Invited Participant and Speaker at Design Workshop: "Design and analysis of experiments in healthcare", Isaac Newton Institute for Mathematical Sciences in Cambridge, UK 6-10 July 2015. (This is a follow-up to the 6-month program on "Design and analysis of experiments" held at Isaac Newton Institute in 2011 that I served as a member of the 5-member team of Scientific Advisors.)
- 2016 Invited Speaker, China Heart Congress Conference, China National Convention Center, Beijing, China 11-14 August. Talk Title: Design, Data Management and Safety Issues for Cardiology Clinical Trials.

### Other Professional Experiences

- 1 Member, Scholarship Committee for The Singapore Club, Los Angeles, 1992-1996, 2000-2002, 2005-2006
- 2 Staff Member, Mathematical Reviews, Division of the American Mathematical Society, University of Michigan, Ann Arbor, 1994-2000
- 3 IMS Local Arrangements Representative for the joint 233rd IMS/WNAR meeting, 27-29th June 1994
- 4 Invited Participant at the NSF-CBMS Regional Research Conference "Longitudinal Data Analysis" at University of Missouri-Columbia, June 10-14th 1997
- 5 Invited Participant, Design and Analysis Conference 1, Vancouver, Canada, July 14<sup>th</sup>-18<sup>th</sup>, 2002
- 6 Program Coordinator, WNAR of the International Biometrics Society, 2003-present
- 7 Member, Scientific Committee for the ISCA conference in La Jolla, California, 22-24<sup>th</sup>, 2004
- 8 Member, Advanced Program Statistics Reader, American Statistical Association, 2005-2006
- 9 Member, Fisher Lectureship Award Committee, American Statistical Association, 2003-2006
- 10 Member, Committee on Meetings, American Statistical Association, 2007-present
- 11 Member, Scientific Advisory Board of a Pharmaceutical Company in Tennessee, 2007-present
- 12 Member, Steering Committee for a Drug Development Phase IIB Clinical Trial, June 2010-present
- 13 Member, Scientific Advisory Board for Singapore Clinical Research Institute, July 2010-present
- 14 Member, DSMB for a Phase I Trial for Pre-Term Neonates, UCLA, August 2010-2014
- 15 Member, International Biometrics Society, Strategic Plan Committee, 2010-2016
- 16 Member, External Review Committee, Biostatistics Program at Oregon Health and Science University,

9/1/2021

13-15<sup>th</sup> June 2011

- 17 Invited Participant, Workshop on Survey Sampling and Small Area Estimation Techniques at the Banff International Research Station, Banff, Alberta, Canada, 10-15<sup>th</sup> July, 2014
- 18 Reviewer, Talk Abstracts for 2015 AAAS Annual Conference
- 19 Member, International Biometrics Society Financial Committee, 2016-present
- 20 Chair, External Review Committee, Master Statistics Program at University of Utah, 2016
- 21 Appointed DSMB Member by the National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health for the trial "Safety & Suitability of Dabigatran to Inhibit Thrombin in Scleroderma", 2016-2019.
- 22 Lead Organizer and Chair of a 1-week Virtual Workshop on Metaheuristic Optimization, Machine Learning and Artificial Intelligence at Statistical and Applied Mathematics Sciences Institute (SAMSI), March 8-12<sup>th</sup>, 2021.

### **1A Grant Research Activities**

Dr. Wong research has been consistently supported by The National Institutes of Health, CDC, FDA, National Cancer Institute, Robert Wood Foundation, Scleroderma Foundation and Lupus Foundation of America. The projects include research in dentistry, environmental health science, nutrition study for breast cancer patients, cancer control and prevention, in particular in colon, prostate, liver cancer, and melanoma. Some of the recent NIH-funded projects have focus on health disparities issues and intervention programs to fight obesity in African American, Asian American and Latino communities in Southern California. His collaborative work with the School of Medicine is in rheumatology with a particular emphasis on rheumatoid arthritis, scleroderma and lupus. He served as lead statistician on two federally funded multi-center two-arm randomized control trials in scleroderma. His research in this area led to some of the research grants for which he served as principal investigator. Recent methodological work includes (i) developing study design for cluster randomized trials and analysis of binary data in cancer epidemiology and (ii) extending his long-standing research in design strategies for biomedical applications, (iii) applying mathematical programming techniques and metaheuristic algorithms to find hard to find optimal designs for high-dimensional problems, and (iv) adaptive designs for clinical trials.

#### **Current:**

Ministerio de Economía y Competitividad PI: Lopez-Fidalgo, J. 01/01/2017-12/31/2020  
(University of Castilla-La Mancha)  
Title: Optimal experimental design for health and security  
This project develops new design methodology for constructing optimal designs for the health care industry.  
Amount: 82,700€  
Role: co-Investigator

#### **Recently Completed Grants and Grants with Wong as PI:**

NIH PI: McMahon, Maureen (UCLA) 09/05/2014-08/31/2019  
Title: The PREDICTS risk score for increased atherosclerosis and disease activity in SLE  
The project recruits a cohort of lupus patients and identify risk factors for lupus patients using clinical and omics data.  
Amount: \$3,231,338  
Role: co-Investigator

NIH/GMS PI: Wong, W. K. 03/30/2014-04/30/2019  
Title: Designing efficient designs under model uncertainty for biological studies  
This project develops new design methods for discriminating among several biological models, including semi-parametric models and state-of-the art metaheuristic algorithms.  
Amount: \$1,366,328

NSERC, Canada PI: Julie Zhou (University of Victoria, BC) 01/01/2017-12/31/2018  
Title: Robust and optimal design of experiments for models with possible misspecifications  
To perform cutting edge in the topic specified.  
Amount: \$13,500 each year  
Role: Investigator

NIH (subcontract from Johns Hopkins U) PI: Wong, W. K. 08/01/2018-11/30/2018  
Title: Robust optimal design of pediatric PK studies on a novel TB drug  
To determine optimal sampling times for model-based estimation of PK parameters for delamanid (OPC-67683)

9/1/2021

or Delyba) in children using optimal design methodology and metaheuristics under a variety of scenarios  
Amount: \$20,000

Ministry of Education Singapore PI: Wong, W. K. 10/01/2017-02/28/2018

Title: Particle Swarm Optimization and Evolutionary Computation Workshop  
This 1.5-day will be held at the Institute for Mathematical Sciences at the National University of Singapore on Feb 20th and 21st. The main purpose is to gather local experts in nature-inspired metaheuristic algorithms to exchange advances in the field and at the same time inform their research potential and applications with researchers in mathematics and statistics.  
Amount: \$5,000

NSF co-PIs: Wong, W. K. and Hongquan Xu (UCLA, Statistics) 01/01/2017–10/30/2017

Title: Design of Analysis of Experiments 2017  
This 2.5 day conference at UCLA this October is to gather top researchers in the field and young researchers working in the area together to exchange research ideas and more importantly have the senior researchers mentor the junior ones. At least 50% of the attendees are expected to be junior researchers and there will be intense effort to recruit and encourage minority students to participate. All the requested conference funding is planned for travel support for junior researchers and students.

NSERC, Canada co-PIs: Wong, W. K., Dette, H. (Ruhr University) and Wiens, D. (U. of Alberta, Edmonton) 08/06/2017-08/11/2017

Title: Latest Advances in Optimal Design Theory and Applications  
This 1-week workshop was competitively selected and will be held at the Banff International Research Station in Banff, Alberta. There are 42 slots for top researchers in the field and selected students from all over the world.  
Amount: \$45,000

Ministry of Education Singapore co-PIs: Wong, W. K. and Loh, W. Y. (U. of Wisconsin, Madison) 06/19/2017-07/14/2017

Title: Quantitative Methods for Drug Discovery and Development  
This 5-week workshop was competitively selected and held at the Institute for Mathematical Sciences at the National University of Singapore. There are two tutorials, one by Prof. TL Lai from Stanford University on "Adaptive clinical trial designs: overview and recent advances toward precision medicine and the second by Prof. WY Loh from, University of Wisconsin-Madison on "Tutorial on Regression Tree Methods for Precision Medicine". A total of 32 eminent researchers spoke, along with local speakers and participants from industry.  
Amount: \$160,000

Ministry of Education, Singapore PI: Wong, W. K. 11/01/10-10/31/2011  
"Workshop on the Design and Analysis of Clinical Trials"

This 1-week workshop was held at the Institute for Mathematical Sciences at the National University of Singapore campus in Singapore in October 2011. The one day short course on sequential design and analysis of clinical trials was led by Professor T. L. Lai from Stanford University. The workshop focus was on adaptive clinical trials and speakers included 18 eminent biostatisticians from the pharmaceutical industry and academia.

NIH/NIGMS PI: Wong, W. K. 09/01/2005-08/31/2009  
"Cost Effective Designs for Practitioners"

Goal is to develop innovative design tools for practitioners including a web site for implementing single and multiple-objective optimal designs for a range of biological models in the health science area.

Scleroderma Foundation PI: Wong, W. K. 01/01/2006-12/31/2007  
"Statistical Analysis to Identify Patients Responsive to an Anti-Fibrotic Agent and a Missing Data Imputation Protocol for Scleroderma Researchers"

The aim of this 2-year senior Investigator award is to perform analyses and tasks described in the title of the grant award.

NIH/NIAMS PI: Wong, W. K. 04/01/1997–03/30/2003  
"Design Strategies in Arthritis Research"

The goal was to develop optimal design strategies for chronically ill patients.

NIH/NIAMS PI: Wong, W. K. 09/01/1992-08/31/1997

## "Multipurpose Arthritis Centre Data Analysis Core"

This core provides data collection and analysis needs for basic research on the treatment of arthritis.

**IB Refereed Publications:**

- 1 **Wong, W. K.** (1992). A Unified Approach to the Construction of Mini-Max Designs, Biometrika, Vol. 79, # 3, 611-620.
- 2 **Wong, W. K.** and Cook, R. D. (1993). Heteroscedastic G-optimal Designs, Journal of Royal Statistical Society, Series B, Vol. 55, #4, 871-880.
- 3 **Wong, W. K.** (1993). Minimal Number of Support Points for Heteroscedastic Optimal Designs. Statistics & Probability Letters, Vol. 17, #5, 405-409.
- 4 Gritz, E., Carr, C., Chang, C., **Wong, W. K.**, et al. (1993). Predictors of Long-Term Smoking Cessation in Head and Neck Cancer Patients. Cancer Epidemiology, Biomarkers and Prevention, Vol. 2, 261-270.
- 5 Cook, R. D. and **Wong, W. K.** (1994). On the Equivalence of Constrained and Compound Optimal Designs. Journal of the American Statistician Association, Vol. 89, #426, 687-692.
- 6 **Wong, W. K.** (1994). Comparing Robust Properties of A, D, E and G-optimal Designs. Computational Statistics & Data Analysis, Vol. 18, 441-448.
- 7 **Wong, W. K.** (1994). Multifactor G-optimal Designs with Heteroscedastic Errors. Journal of Statistical Planning and Inference, Vol. 40, 127-133.
- 8 **Wong, W. K.** (1995). Comments on discussion paper "Constrained Optimization of Experimental Design" by R. D. Cook and V. Fedorov, Statistics, Vol. 26, 129-178.
- 9 Huang, M. N. L. Chang, F. C. and **Wong, W. K.** (1995). D-optimal Designs for Polynomial Regression Without An Intercept. Statistical Sinica, Vol. 5, # 2, 441-458.
- 10 Dette, H. and **Wong, W. K.** (1995). Recurrence Moment Formulas for D-optimal Designs. Scandinavian Journal of Statistics, Vol. 22, #4, 505-512.
- 11 **Wong, W. K.** (1995). On the Equivalence of D and G-optimal Designs in Heteroscedastic Models. Statistics & Probability Letters, Vol. 25, 317-321.
- 12 Attanasio, M. and **Wong, W. K.** (1995). Transformation for Stabilizing Spread in a Time Series Model: A Comparative Study. Journal of Statistical Simulation and Computation, Vol. 52, 55-70.
- 13 Dette, H. and **Wong, W. K.** (1995). On G-efficiency Calculation for Polynomial Models. The Annals of Statistics, Vol. 23, # 6, 2081-2101.
- 14 **Wong, W. K.** (1995). A Graphical Approach for Constructing Constrained D and L-Optimal Designs Using Efficiency Plots. Journal of Statistical Simulation and Computation, Vol. 53, 143-152.
- 15 **Wong, W. K.** and Lachenbruch, P. A. (1996). Designing Studies for Dose Response. Statistics in Medicine, Vol. 15, 343-360.
- 16 Dette, H. and **Wong, W. K.** (1996). Robust Optimal Extrapolation Designs for Polynomial Models. Biometrika. Vol. 83, # 3, 667-680.
- 17 Berman, N., **Wong, W. K.**, Bhasin, S. and Ipp, E. (1996). Applications of Segmented Regression Models for Biomedical Studies. American Journal of Physiology: Endocrinology and Metabolism, Vol. 470, Issue 4, E723-732.
- 18 Dette, H. and **Wong, W. K.** (1996). Bayesian Optimal Designs for Models with Partially Specified Heteroscedastic Structure. The Annals of Statistics, Vol. 24, # 5, 2108-2127.
- 19 **Wong, W. K.**, Lachenbruch, P. A. and Clements, P. J. (1996). On Choice of Subjects and Replicates in

- Estimating Among and Within Subject Variation. Biometrical Journal, Vol. 38, #7, 767-777.
- 20 **Wong, W. K.** (1996). On Choice of a Uniform Design In Polynomial Regression Models. Sankhya. Series B, Vol 58, #3, 396-406.
- 21 Berkanovic, E., Oster, P., **Wong, W. K.**, Bulpitt, K. Clements, P., Sterz, M. and Paulus, H. (1996). The Relationship Between Social Economic Status and Recently Diagnosed Rheumatoid Arthritis. Arthritis Care and Research, Vol. 9, #6, 457-462.
- 22 **Wong, W. K.** (1996). How Robust are G-optimal Designs to Heteroscedasticity? 2nd International Workshop on Mathematical Methods in Stochastic Simulation and Experimental Design, editors Ermakov, S. M. and Melas, V. B., Publishing House of St. Petersburg University, 269-273.
- 23 Schwabe, R. and **Wong, W. K.** (1997). A Relationship between Efficiencies of Marginal Designs and Product Designs. Metrika, Vol. 45, #3, 253-258.
- 24 King, J. and **Wong, W. K.** (1998). Optimal Minimax Designs for Prediction in Heteroscedastic Models. Journal of Statistical Planning and Inference. Vol. 69, 371-383.
- 25 Song, D. and **Wong, W. K.** (1998). Optimal Two-Point Designs for the Michaelis-Menten Model with Heteroscedastic Errors. Communications in Statistics-Theory and Methods, Vol 27, #6, 1503-1516.
- 26 Song, D. and **Wong, W. K.** (1998). On the Construction of  $G_{RM}$ -optimal Designs. Statistica Sinica, Vol. 9, #1, 263-272.
- 27 Huang, Y. C. and **Wong, W. K.** (1998a). Sequential Construction of Multiple-Objective Designs. Biometrics, Vol. 54, #4, 1388-1397.
- 28 Huang, Y. C. and **Wong, W. K.** (1998b). Multiple-Objective Optimal Designs. Journal of Biopharmaceutical Statistics, Vol. 8, #4, 635-643.
- 29 Dette, H. and **Wong, W. K.** (1998). Bayesian D-optimal Designs on a Fixed Number of Design Points for Heteroscedastic Polynomial Models. Biometrika, Vol. 85, #4, 869-882.
- 30 Zhu, W., Ahn, H. and **Wong, W. K.** (1998). Multiple-Objective Optimal Designs for the Logit Model. Communications in Statistics-Theory and Methods, Vol 27, #6, 1581-1592.
- 31 Montiperia, G. and **Wong, W. K.** (1998). Optimal designs for Models with Ignored Heteroscedasticity. MODA 5 - Advances in Model-Oriented Data Analysis and Experimental Design; editors: Atkinson, Pronzato and Wynn; Physica-Verlag; A Springer-Verlag Company, 59-66.
- 32 Zhu, W. and **Wong, W. K.** (1998). On the Equal Allocation Rules in Quantal Dose-Response Experiments. MODA 5 - Advances in Model-Oriented Data Analysis and Experimental Design; editors: Atkinson, Pronzato and Wynn; Physica-Verlag; A Springer-Verlag Company, 93-101.
- 33 Dette, H. and **Wong, W. K.** (1998). E-optimal designs for the Michaelis-Menten Models. 3rd International Workshop on Mathematical Methods in Stochastic Simulation and Experimental Design; editors Ermakov, S. M. and Melas, V. B.; Publishing House of St. Petersburg University, 148-152.
- 34 Zhu, W. and **Wong, W. K.** (1998). Multiple-Objective Designs for Dose Response Experiment. New Developments and Applications in Experimental Design. IMS Lecture Notes-Monograph Series Vol. 3; editors Flournoy, N., Rosenberger, W. F. and Wong, W. K., 73-82.
- 35 **Wong, W. K.** (1999). Recent Advances in Constrained Optimal Design Strategies. Statistical Neerlandica, (Invited paper) Vol. 53, #3, 257-276.
- 36 Ardanuy, R., Lopez-Fidalgo, J., Laycock Patrick and **Wong, W. K.** (1999). When Is a Equally-Weighted Design D-optimal? Annals of Institute of Mathematical Statistics, Vol. 51, #3, 531-540.
- 37 Dette, H. and **Wong, W. K.** (1999). E-optimal Designs for the Michaelis-Menten Models. Statistics &

- Probability Letters, Vol. 44, 405-408.
- 38 Clements, P. J., **Wong, W. K.**, Hurwitz, E. L., Furst, D. E., Mayes, M., White, B., Wigley, F., Weisman, M. H., Barr, W., Moreland, L., Medsger, T. A., Steen, V., Martin, R. W., Collier, D., Weinstein, A., Lally, E., Varga, J., Weiner, S., Andrews, B., Abeles, M. and Seibold, J. R. (1999). Correlates of the Disability Index of the Health Assessment Questionnaire: A Measure of Functional Impairment in Systemic Sclerosis (SSC). Arthritis and Rheumatism, Vol. 42, 2372-2380.
  - 39 Schwabe, R. and **Wong, W. K.** (1999). Efficiency Bounds for Product Designs in Linear Models. Annals of Institute of Mathematical Statistics, Vol. 51, #4, 723-730.
  - 40 Kapur, K. K., Garrett, N. R., Hamada, M. O., Roumanas, E. D., Freymiller, E., Han, T., Diener, R. M., **Wong, W. K.** and Levin, S. (1999). A Randomized Clinical Trial Comparing the Efficacy of Mandibular Implant-supported Overdentures and Conventional Dentures in Diabetic Patients. Part III: Comparisons of Patient Satisfaction. Journal of Prosthetic Dentistry, Vol. 82, 416-427.
  - 41 Wong, A. L., **Wong, W. K.**, Harker, J., He, W. Z, Bulpitt, K., Park, G., Ramos, B., Clements, P., Sterz, M., and Paulus, H for the Western Consortium of Practicing Rheumatologists. (1999). Patient Self-Report Tender and Swollen Joint Counts In Early Rheumatoid Arthritis. The Journal of Rheumatology, Vol. 26, #12, 2551-2561.
  - 42 Dette, H. and **Wong, W. K.** (1999). Optimal Designs when the Variance is a Function Of Its Mean. Biometrics, Vol. 55, #3, 925-929.
  - 43 Clements, P. J., Furst D. E., **Wong, W. K.** Mayes, M., White, B. Wigley, F., Weisman, M. M., Barr, W., Moreland, L., Medsger, T., Steen, V. Jr., Martin, R., Collier, D., Weinstein, A., Lally, E., Varga, J., Weiner, S., Andrews, B., Abeles, M. and Seibold, J. R. (1999). High-Dose versus Low-Dose D-penicillamine in Early Diffuse Systemic Sclerosis: Analysis of a Two Year Double-Blind, Randomized Controlled Clinical Trial. Arthritis and Rheumatism, Vol. 42, 1194-1203.
  - 44 Clements, P. J., Hurwitz, E. L., **Wong, W. K.**, Seibold, J., Mayes, M., White, B., Wigley, F., Weisman, M. H., Barr, W., Moreland, L., Medsger, T. A., Steen, V., Martin, R. W., Collier, D., Weinstein, A., Lally, E., Varga, J., Weiner, S., Andrews, B., Abeles, M. and Furst, D. E. (2000). Skin Thickness Score As a Predictor and Correlate of Outcome in Systemic Sclerosis. Arthritis and Rheumatism, Vol. 43, # 11, 2445-2454.
  - 45 Brown, L. D. and **Wong, W. K.** (2000). An Algorithmic Construction of Optimal Minimax Designs for Heteroscedastic Linear Models. Journal of Statistical Planning and Inference, Vol. 85, 103-114.
  - 46 Lopez-Fidalgo, J. and **Wong, W. K.** (2000). Robustness Properties of MV- and SMV-optimal Designs for Binary Response Models, p.135-152, in Advances in Stochastic Simulation Methods, editors: N. Balakrishnan, V. B. Melas, S. Ermakov. Birkhauser, Boston.
  - 47 Zhu, W. and **Wong, W. K.** (2000). Optimum Treatment Allocation in Comparative Biomedical Studies. Statistics in Medicine, Vol. 19, #5, 639-648.
  - 48 Paulus, H., Bulpitt, K. J., Ramos, B., Park, G. and **Wong, W. K.** for the Western Consortium of Practicing Rheumatologists. (2000). Relative Contributions of the Components of the American College of Rheumatology 20% Criteria for Improvement to Responder Status in Patients with Early Sero-positive Rheumatoid Arthritis. Arthritis and Rheumatism, Vol. 43, 2743-2750.
  - 49 King, J. and **Wong, W. K.** (2000). Minimax D-Optimal Designs for the Logistic Model. Biometrics, Vol. 56, #4, 1263-1267.
  - 50 King, J. and **Wong, W. K.** (1998). Optimal Minimax Designs for Prediction in Heteroscedastic Models. Journal of Statistical Planning and Inference. Vol. 69, 371-383.
  - 50 Berger, M. P. F., King, J. and **Wong, W. K.** (2000). Minimax Designs for Item Response Theory Models. Psychometrika, Vol. 65, #3, 377-390.
  - 51 Newhall-Perry, K., Law, J., Ramos, B., Sterz, M., **Wong, W. K.**, Bulpitt, K. J., Park, G., Lee, M., Clements,

- P., Paulus, H. for the Western Consortium of Practicing Rheumatologists (2000). The Direct and Indirect Costs Associated with the Onset of Sero-positive Rheumatoid Arthritis. The Journal of Rheumatology, Vol. 27, 1156-1163.
- 52 Imhof, L. and **Wong, W. K.** (2000). A Graphical Method for Finding Maximin Efficiency Designs. Biometrics, Vol. 56, 113-117.
- 53 Zhu, W. and **Wong, W. K.** (2000). Multiple-Objective Designs in a Dose Response Experiment. Journal of Biopharmaceutical Statistics, Vol. 10, #1, 1-14.
- 54 Zhu, W. and **Wong, W. K.** (2000). Optimum Treatment Allocation for Dual-objective Clinical Trials with Binary Outcomes. Communications in Statistics-Theory and Methods, Vol. 29, # 5, 957-974.
- 55 Zhu, W., Zeng, Q. and **Wong, W. K.** (2000). Dual-objective Bayesian Optimal Designs for a Dose-Ranging Study. Drug Information Journal, Vol. 34, #2, 421-428.
- 56 Furst, D. E., Clements, P. J., **Wong, W. K.**, Mayes, M., B. White, Wigley, F., Weisman, Weinstein, A., M., Barr, Moreland, L., T., Martin, R., Thomas A. Medsger, Jr., Steen, V. Jr., Collier, D., Lally, E., Varga, J., S. R. Weiner, Andrews, B., Weiner, S., Abeles, M., Peter, J. B. and Seibold, J. R. (2001). The Effects of the ACR Systemic Sclerosis Trial Guidelines on the Nature of Systemic Sclerosis Patients Entering a Clinical Trial. Rheumatology, Vol. 40, 615-622.
- 57 Zhu, W. and **Wong, W. K.** (2001). Bayesian Optimal Designs for Estimating A Set of Symmetric Quantiles. Statistics in Medicine, Vol. 20, 123-137.
- 58 Hahn, B. H., Singh, R. R., **Wong, W. K.**, Bulpitt, K., Tsao, B. P. and Ebling, F. M. (2001). Treatment with a Consensus Peptide based on Amino Acid Sequences in Autoantibodies Prevents T Cell Activation by Autoantigens and Delays Disease Onset in Murine Lupus. Arthritis and Rheumatism, Vol. 44, 432-441.
- 59 Imhof, L., Lopez-Fidalgo, J. and **Wong, W. K.** (2001). Efficiencies of Optimal Approximate Designs for Small Samples. Statistica Neerlandica, Vol. 55, 301-318.
- 60 Dette, H., Song, D. and **Wong, W. K.** (2001). Robustness Properties of Minimally- Supported Bayesian D-optimal Designs for Heteroscedastic Models. Canadian Journal of Statistics, Vol. 29, #4, 633-647.
- 61 Montiperia, G. and **Wong, W. K.** (2001). A New Design Criterion When Heteroscedasticity is Ignored. Annals of Institute of Mathematical Statistics, Vol.53, #2, 418-426.
- 62 Clements, P. J., Hurwitz, E. L., **Wong, W. K.**, Seibold, J., Mayes, M., White, B., Wigley, F., Weisman, M. H., Barr, W., Moreland, L., Medsger, T. A., Steen, V., Martin, R. W., Collier, D., Weinstein, A., Lally, E., Varga, J., Weiner, S., Andrews, B., Abeles, M. and Furst, D. E. (2001). The Disability Index of the Health Assessment Questionnaire is a Predictor and Correlate of Outcome in the High-Dose vs. Low-Dose Penicillamine in Systemic Sclerosis Trial. Arthritis and Rheumatism, Vol. 44, 653-661.
- 63 Harold, P., Wiesner, J., Bulpitt, K. J., Patniak, M., Law, J., Park, G. S. and Wong, W. K. for the Western Consortium of Practicing Rheumatologists (2002). Autoantibodies in Early Seropositive RA, Before and During DMARD Treatment. Journal of Rheumatology, Vol 29, 2513-2520.
- 64 DeMarco, P. J., Weisman, M. H., Seibold, J. R., Furst, D. E., **Wong, W. K.**, Hurwitz, E. L., Mayes, M., White, B., Wigley, F., Barr, W., Moreland, L., Medsger, T. A. Jr., Steen, V., Martin, R. W., Collier, D., Weinstein, A., Lally, E., Varga, J., Weiner, S. R., Andrews, B., Abeles, M. and Clements, P. J. (2002). Predictors and Outcomes of Scleroderma renal crisis: The High-Dose versus Low-Dose D-Penicillamine in Early Diffuse Systemic Sclerosis Trial. Arthritis & Rheumatism, Vol. 46, 2983-2989.
- 65 Lopez-Fidalgo, J. and **Wong, W. K.** (2002). Optimal Designs for the Michaelis-Menten Model. Journal of Theoretical Biology, Vol. 215, #1, 1-11.
- 66 Moerbeek, M. and **Wong, W. K.** (2002). Multiple-objective Optimal Designs for the Hierarchical Linear Model. Journal of Official Statistics, Vol. 18, # 2, 291-303.



- 67 Imhof, L., Song, D. and **Wong, W. K.** (2002). Optimal Designs for Experiments with Possibly Failing Trials. Statistica Sinica, Vol. 12, # 4, 1145-1155.
- 68 Schwabe, R. and **Wong, W. K.** (2003). Efficient Product Designs for Quadratic Models on a Hypercube. Sankhya, Vol. 65, 649-659.
- 69 Paulus, H. E., Oh, S., Sharp, J. T., Gold, R., Bulpitt K., **Wong, W. K.**, Park, G., for the Western Consortium of Practicing Rheumatologists (2003). Correlation of Single Time-Point Damage Scores with Observed Progression of Radiographic Damage During the First Six Years of RA. Journal of Rheumatology, Vol.30, #4, 705-713.
- 70 Paulus, H. E., Oh, S., Sharp, J. T., Gold, R., Bulpitt, K. J., **Wong, W. K.** and Park, G. S. (2003). Classifying Structural Damage of Individual RA Patients as Progressive or Non-Progressive Using a Composite Definition of Joint Radiographic Change. Arthritis and Rheumatism, Vol.50, #4, 1083-1096.
- 71 King, J. and **Wong, W. K.** (2004). Robust Designs for the Power Logistic Model. Journal of Statistical Computation and Simulation, Vol. 74, #11, 779-792.
- 72 Amjadi-Begvand, S., Khanna, D., Park, G., Bulpitt, K. J., **Wong, W. K.** and Paulus, H. E. (2004). Dating the "Window of Therapeutic Opportunity" in Early RA: Accuracy of Patient Recall of Arthritis Symptom Onset. Journal of Rheumatology, Vol. 31. #39, 1686-1692.
- 73 Imhof, L., Song, D and **Wong, W. K.** (2004). Optimal Design of Experiments with Anticipated Pattern of Missing Observations. Journal of Theoretical Biology, Vol. 228, 251-260.
- 74 Huang, Y. C. and **Wong, W. K.** (2004). Robustness Properties of Multiple-Objective Optimal Designs for a Bi-exponential Model. Drug Information Journal, Vol. 39, #3, 223-232.
- 75 Clements, P. J., Hurwitz, E. L., **Wong, W. K.**, Seibold, J., Mayes, M., White, B., Wigley, F., Weisman, M. H., Barr, W., Moreland, L., Medsger, T. A., Steen, V., Martin, R. W., Collier, D., Weinstein, A., Lally, E., Varga, J., Weiner, S., Andrews, B., Abeles, M. and Furst, D. E. (2004). Lessons Learnt from the D-Pencillamine Study. Seminars in Arthritis and Rheumatism, Vol. 33, 249-263.
- 76 Dette, H., **Wong, W. K.** and Zhu, W. (2005). On the Equivalence of Optimality Design Criteria for the Placebo-Treatment Problem. Statistics & Probability Letters, Vol. 74, 337-346.
- 77 Hoy, M. K., Lubin, M. P., Grosvenor, M. B., Winters, B. L., Liu, W., **Wong, W. K.** (2005). Development and Use of a Motivational Action Plan (MAP) for Dietary Behavior Change using a Patient-Centered Counseling Approach. Topics in Clinical Nutrition, Vol. 20, #2, 118-126.
- 78 Khanna, D., Wu, H., Park, G., Gersuk, V., Gold, R. H., Nepom, G. T., **Wong, W. K.**, Sharp, J. T., Bulpitt, K. J., Paulus, H. E. and Tsao, B. P. for the Western Consortium of Practicing Rheumatologists (2005). Interaction between RANKL and HLA-DRB1 Genotypes May Contribute to Younger Age of Onset of Seropositive Rheumatoid Arthritis in an Inception cohort. Arthritis and Rheumatism, Vol. 50, 3093-3103.
- 79 **Wong, W. K.** and Lachenbruch, P. A. (2005). Designing Studies for Dose Response in Tutorials in Biostatistics, Volume 1, Statistical Methods in Clinical Studies, Editor: R. B. Agostino, John Wiley.
- 80 Dette, H. Melas, V. B. and **Wong, W. K.** (2005). Optimal Designs for Goodness of Fit of the Michaelis-Menten Enzyme Kinetic Function. Journal of American Statistical Association, Vol. 100, #472, 1370-1381.
- 81 Chen, R. B., Huang, M. L., Lin, C. Su and **Wong, W. K.** (2006). Optimal Designs for Parallel Models with Correlated Responses. Statistica Sinica, Vol. 16, 121-133.
- 82 Khanna, D., Hui Wu, Park, G., Gersuk, V., Gold, R. H., Nepom, G. T., **Wong, W. K.**, Sharp, J. T., Reed, E. F., Paulus, H. E and Tsao, B. T. for the Western Consortium of Practicing Rheumatologists. (2006). Tumor Necrosis Factor-alpha Polymorphism but Not Shared Epitope is Associated with Increased Radiographic Progression in a Seropositive Rheumatoid Arthritis Inception Cohort. Arthritis and Rheumatism, Vol. 54, #4, 1105-1116.

- 83 Dette, H., Melas, V. B. and **Wong, W. K.** (2006). Locally D-optimal Designs for Exponential Regression Models. Statistica Sinica, Vol.16, #3, 789-803.
- 84 Baek, I., Zhu, W., Wu, X and **Wong, W. K.** (2006). Bayesian Optimal Designs For A Quantal Dose-Response Study with Potentially Missing Observations. Journal of Biopharmaceutical Statistics, Vol 16, #5, 679-693.
- 85 Roumanas, E. D., Garrett, N., Blackwell, K., Freymiller, E., Abemayor, E., **Wong, W. K.**, Beumer, J. III, Fucki, K., Fucki, W. and Kapur, K. K. (2006). Masticatory and Swallowing Threshold Performances with Conventional and Implant-Supported Prosthesis after Mandibular Fibula Free-Flap Reconstruction. The Journal of Prosthetic Dentistry, Vol.96, #4, 289-297.
- 86 Yancey, A. K., McCarthy, W. J., Harrison, G. G., **Wong, W. K.**, Siegel, J. M and Leslie, J. (2006). Challenges in Improving Fitness: Results of a Community-Based Randomized Controlled Lifestyle Change Intervention. Journal of Women Health, Vol. 15, #4, 412-429.
- 87 Phalen, R. N., QueeHee, S. S., Xu, W. and **Wong, W. K.** (2006) Acrylonitrile Content as a Predictor of the Captan Permeation Resistance for Disposable Nitrile Rubber Gloves. Journal of Applied Polymer Science, Vol. 103, 2057-2063.
- 88 Khanna, D., Furst, D. E., Hays, R. D., Park, G. S., **Wong, W. K.**, and Clements, P. J. for the D-Penicillamine Study Group. (2006). Minimally Important Difference in Diffuse Systemic Sclerosis- Results from the D-Penicillamine Study. Annals of Rheumatic Disease, Vol. 65, 1325-1329.
- 89 Garrett, N., Roumanas, E. D., Blackwell, K., Freymiller, E., Abemayor, E., **Wong, W. K.**, Gerratt, B., Berke, G., Beumer, J. III and Kapur, K. K. (2006). Efficacy of Implant-supported Mandibular Resection Prosthesis: Study Overview and Treatment Outcomes. Head and Neck. The Journal of Prosthetic Dentistry, Vol. 96, #1, 13-24.
- 90 Park, G. S., **Wong, W. K.**, Oh, M. S., Khanna, D., Gold, R. H., Sharp, J. T., and Paulus, H. E. (2007). Classifying Radiographic Progression Status in Early Rheumatoid Arthritis Patients using Propensity Scores to Adjust for Baseline Differences. Statistical Methods in Medical Research, Vol. 16, #1, 13-30.
- 91 Boscardin, J. W., Yan, X. and **Wong, W. K.** (2007). A Reanalysis of a Longitudinal Scleroderma Clinical Trial Using Informative Dropout Models. Journal of Statistical Planning and Inference, Vol. 137, #12, 3848-3858.
- 92 Khanna, D., Hays, Ron D., Furst, D. E., **Wong, W. K.**, Tsevat, J., Clements, P. J., Park, G. S. and Ahmed, M. (2007). Reliability, Validity, and Minimally Important Differences of the SF-6D in Systemic Sclerosis. Quality of Life Research, Vol. 16, 1083-1092.
- 93 **Wong, W. K.**, Furst, D. E, Clements, P. J. and Streisand, J. (2007). Assessing Disease Progression Using a Composite Endpoint. Statistical Methods in Medical Research, Vol. 16, #1, 31-50.
- 94 Moerbeek, M. and **Wong, W. K.** (2007). Sample Size Formulae for Trials Comparing Group and Individual Treatments in a Hierarchical Model. Statistics in Medicine, Vol. 27, 2850-2864.
- 95 Jo A. M, Maxwell AE, **Wong W. K.**, Bastani R. (2008). Colorectal Cancer Screening Among Underserved Korean Americans in Los Angeles County. Journal of Immigrant and Minority Health, Vol. 10, 119-126.
- 96 **Wong, W. K.** and Zhu, W. (2008). Optimal Subject Allocation Scheme to Various Treatment Groups under a Variance Heterogeneity Model. Statistics in Medicine, Vol. 27, 4581-4595.
- 97 McCarthy, W. J., Yancey, A. K., Siegel, J. M., **Wong, W. K.**, Ward, A. and Leslie, J. (2008). Correlation of Obesity with Elevated Blood Pressure among Racial/Ethnic Minority Children in two Los Angeles Middle School. Journal of Preventing Chronic Disease, Vol. 5, #2, 1-11.
- 98 Chen, R. B., **Wong, W. K.**, and Li, K. Y. (2008). Optimal Minimax Designs for Estimating Response Surface over a Pre-specified Region in a Heteroscedastic Model. Statistics and Probability Letters, Vol.

- 99 Postlethwaite, A. E., **Wong, W. K.**, Clements, P., Chatterjee, S., Fessler, B. J., Kang, A. H., Korn, J., Mayes, M., Merkel, P. A., Molitor, J. A., Moreland, L., Rothfield, N., Simms, R. W., Smith, E. A., Spiera, R., Steen, V., Warrington, K., White, B., Wigley, F. and Furst, D. E. (2008). A Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Oral Type I Collagen Treatment in Patients with Diffuse Cutaneous Systemic Sclerosis: I. Oral Type I Collagen Does Not Improve Skin in All Patients, but May Improve Skin in Late-Phase Disease. Arthritis and Rheumatism, Vol. 58, #6, 1810-1822.
- 100 Dette, H., Pepelyshev, A. and **Wong, W. K.** (2009). Optimal Designs for Dose Finding Experiments in Toxicity Studies. Bernoulli Journal, Vol. 15, 124-145.
- 101 Dette, H., Pepelyshev, A., Shpilev, P. and **Wong, W. K.** (2009). Optimal Designs for Estimating Critical Effective Dose Under Model Uncertainty in a Dose Response Study. Statistics and Its Interface, Vol. 2, 27-36.
- 102 Amjadi, S., Maranian, P., Furst, D. E., Clements, P. J., **Wong, W. K.**, Postlethwaite, A. E., Khanna, P. P. and Dinesh Khanna for the investigators of the D-Penicillamine, Human Recombinant Relaxin, and Oral Bovine Collagen Clinical Trials (2009). Course of Modified Rodnan Skin Score in Systemic Sclerosis Clinical Trials: Analysis of Three Large Multicenter, Double-Blind Randomized Clinical Trials. Arthritis and Rheumatism, Vol. 60, 2490-2498.
- 103 Li, J. L. and **Wong, W. K.** (2009). A Semi-Parametric Analysis for Identifying Scleroderma Patients Responsive to an Anti-Fibrotic Agent. Contemporary Clinical Trials, Vol. 30, 105-113.
- 104 Phoa, F. K. H., **Wong, W. K.** and Xu, H. (2009). The Need of Considering the Interactions in the Analysis of Screening Designs. Chemometrics, Vol. 23, 545-553.
- 105 Crespi, K., **Wong, W. K.** and Mishra, S. (2009). Using Second Order Generalized Estimating Equations to Model Heterogeneous Intra-class Correlation in Cluster Randomized Trials. Statistics in Medicine, Vol. 28, 814-827.
- 106 **Wong, W. K.** (2009). Discussion of an invited paper entitled "A General Approach to D-optimal Designs for Weighted Univariate Polynomial Regression Models" by Dette and Trampusch. Journal of the Korean Statistical Society. Vol. 39, 27-30.
- 107 McMahon, M., Grossman, J., Skaggs, B., FitzGerald, J., Sahakian, L., Ragavendra, N., Charles-Schoeman, C., Watson, K., **Wong, W. K.**, Volkman, E., Chen, W., Gorn, A., Karpouzas, G., Weisman, M., Wallace, D. J. and Bevera H. Hahn (2009). Dysfunctional Pro-Inflammatory High Density Lipoproteins Confer Increased Risk for Atherosclerosis in Women with Systemic Lupus Erythematosus. Arthritis and Rheumatism, Vol. 60, 2428-2437.
- 108 Kaldas, M., Khan, P., Furst, D. E., Clements, P. J., **Wong, W. K.**, Seibold, J. R., Postlethwaite, A. E. and Khanna, D. (2009). Sensitivity to Change of the Modified Rodnan Skin Score in Diffuse Systemic Sclerosis Assessment of Individual Body Sites in 2 Large Randomized Controlled Trials. Rheumatology, Vol. 48, 1143-1146.
- 109 Phoa, F. K. H., Xu, H. and **Wong, W. K.** (2009). The Use of Nonregular Fractional Factorial Designs in Combination Toxicity Studies. Food and Chemical Toxicology, Vol. 47, 2183-2188.
- 110 Xu, H., Phoa, F. K. H. and **Wong, W. K.** (2009). Recent Development in Non-regular Fractional Factorial Designs. Statistics Surveys. Vol. 3, 18-46.
- 111 Li, J. L. and **Wong, W. K.** (2010). Selection of Covariance Patterns for Longitudinal data in Semi-Parametric Models. Statistical Methods in Medical Research, Vol. 19, 183-196.
- 112 Dette, H., Kiss, T. and **Wong, W. K.** (2010). Robustness of Optimal Designs for the Michaelis-Menten Model under a Variation of Criteria. Statistics for Biopharmaceutical Research, Vol. 2, #3 383-393.
- 113 Lopex-Fidalgo, J., Rodriguez, O. and **Wong, W. K.** (2010). Design Issues for Population Growth Models. Journal of Applied Statistics, Vol. 38, 501-512.

- 114 Dette, H., Pepelyshev, A., Shpilev, P. and **Wong, W. K.** (2010). Optimal Designs for Discriminating Dose Response Models in Toxicology Studies. Bernoulli Journal, Vol. 16, #4, 1164-1176.
- 115 Hu, J., Zhu, W., Su, Y. and **Wong, W. K.** (2010). Controlled Optimal Design Program for the Logit Dose Response Model. Journal of Statistical Software, Vol. 35, Issue 6, 1-17.
- 116 Atamas, S. P., Luzina, I. G., Ingels, J., Jung Choi, J., **Wong, W. K.**, Investigators of the Oral Collagen Trial in Scleroderma and Postlethwaite A. E. (2010). Stimulation with Type 1 Collagen Induces Changes in Gene Expression in Peripheral Blood Mononuclear Cells from Patients with Diffuse Cutaneous Systemic Sclerosis (Scleroderma). Clinical and Experimental Immunology, Vol. 161, #3, 426-435.
- 117 Li, J. L. and **Wong, W. K.** (2010). Estimation of Two-dimensional Toxic Dose Based on Multivariate Logistic Regression Model with Application to Decompression Sickness Study. Biostatistics, Vol. 12, #1, 143-155.
- 118 Tang, M. L., Pei, Y., **Wong, W. K.** and Tang, N. S. (2011). Testing Equality of Correlations between Two Paired Binary Responses from Two Treated Groups in a Randomized Trial. Journal of Biopharmaceutical Statistics, Vol.21, 511-525.
- 119 Pei, Y., Tang, M. L., **Wong, W. K.** and Guo, J. (2011). Confidence Intervals of Correlated Proportion Differences from Paired Data in a Two-Arm Randomized Clinical Trials. Statistical Methods in Medical Research, Vol. 21, 167-187.
- 120 Tseng, C. and **Wong, W. K.** (2011). Analysis of Composite Endpoint with Longitudinal Time-to-Event Data. Statistics in Medicine, Vol. 30, #9, 1018-1027.
- 121 Sverdlov, O., Tymofyeyev, Y. and **Wong, W. K.** (2011). Optimal Response-Adaptive Randomized Designs for Multi-Armed Survival Trials. Statistics in Medicine, Vol. 30, 2890-2910.
- 122 Crespi, C. M., **Wong, W. K.** and Wu, S. (2011). A New Parameterization of the Intra-cluster Correlation Coefficient for the Design of Cluster Randomized Trials with Binary Outcomes. Clinical Trials, Vol. 8, 687-698.
- 123 Dette, H., Pepelyshev, A. and **Wong, W. K.** (2011). Experimental Design Strategies for Detecting Hormesis. Risk Analysis, Vol. 31, #12, 1949-1960.
- 124 Phalen, R. N. and **Wong, W. K.** (2011). Integrity of Disposable Nitrile Exam Gloves Exposed to Simulated Movement. Journal of Occupational and Environmental Hygiene, Vol. 8, 289-299.
- 125 **Wong, W. K.**, Boscardin, W. J., Postlethwaite, A.E. and Furst, D.E. (2011). Handling Missing Data Issues in Clinical Trials for Rheumatic Diseases. Contemporary Clinical Trials, Vol. 32, #1, 1-9.
- 126 McMahon, M. A., Skaggs, B. J., Sahakian, L., Grossman, J., Fitzgerald, J. D., Ragavendra, N., Charles-Schoeman, C., Chernishof, M. Gorn, A., Witztum, J., **Wong, W. K.**, Weisman, M. H., Wallace, D. J., LaCava, A. and Hahn, B. (2011). High Plasma Leptin Levels Confer Increased Risk for Atherosclerosis in Women with Systemic Lupus Erythematosus, and are Associated with Inflammatory Oxidized Lipids. Annals of Rheumatic Diseases, Vol. 70, 1619-1624.
- 127 Park, G. S, **Wong, W. K.**, Elashoff, D. A., Khanna, D., Gold, R. H., Paulus, H. E. for the Consortium of Practicing Rheumatologists. (2011). Patterns of Radiographic Outcomes in Early, Seropositive Rheumatoid Arthritis: A Baseline Analysis. Contemporary Clinical Trials, Vol. 32, #2, 160-168.
- 128 Tang, M. L., Pei, Y., **Wong, W. K.**, Li, J. L. (2012). Goodness of Fit Tests for Correlated Paired Binary Data. Statistical Methods in Medical Research, Vol. 21, #4, 331-345.
- 129 Chen, H. W., **Wong, W. K.** and Xu, H. (2012). An Augmented Approach to the Use of Desirability Function. Journal of Applied Statistics, Vol. 39, #3, 599-613.
- 130 Wu, S., Crespi, C. and **Wong, W. K.** (2012). A Comparison of Different Methods of Estimating the

- Intraclass Correlation Coefficient for Cancer Control and Prevention Trials. Contemporary Clinical Trials, Vol. 33, #5, 869-880.
- 131 Dette, H., Pepelyshev, A. and **Wong, W. K.** (2012). Optimal Designs for Composed Models in Pharmacokinetic-Pharmacodynamic Experiments. Journal of Pharmacokinetics and Pharmacodynamics, Vol. 39, 295-311.
- 132 Response to Comments on "Crespi, C. M., **Wong, W. K.** and Wu, S. (2012). A New Parameterization of the Intra-cluster Correlation Coefficient for the Design of Cluster Randomized Trials with Binary Outcomes. Clinical Trials, Vol. 9, 372-372.
- 133 Maxwell A. E., Stewart, S. L., Glenn, B. A., Wong, W. K., Yasui, Y., Chang, L. C., Taylor, V. M., Nguyen, T. T., Chen, M. S. Jr, Bastani, R. (2012). Theoretically Informed Correlates of Hepatitis B Knowledge among Four Asian Groups: The Health Behavior Framework. Asian Pacific Journal of Cancer Prevention, Vol. 13, 1687-1692.
- 134 Phalen, N. and **Wong, W. K.** (2012) Tensile Properties and Integrity of Cleanroom and Low-modulus Disposable Nitrile Exam Gloves: A Comparison of Two Dissimilar Glove Types. Annals of Occupational Hygiene, Vol. 56, 450-457.
- 135 Zhang, C., **Wong, W. K.** and Peng, H. (2012). Dual-objective Optimal Mixture Designs. Australian and New Zealand Journal of Statistics, Vol. 54, 211-222.
- 136 Phalen, R., Norman, R. and Wong, W. K. (2012). Chemical Resistance of Disposable Nitrile Gloves Exposed to Simulated Movement. Journal of Occupational & Environmental Hygiene, Vol. 9, 630-639.
- 137 Sverdlov, O., Ryznik, Y., and **Wong, W. K.** (2012). Doubly Adaptive Biased Coin designs for Balancing Competing Objectives in Time-to-Event trials. Statistics and Its Interface, Vol. 5, 401-413.
- 138 Chen, H. W., Xu, H. and **Wong, W. K.** (2013). Balancing Location and Dispersion Effects for Multiple Responses. Quality and Reliability Engineering International, Vol. 29, 607-615. DOI: 10.1002/qre.1411
- 139 Zhang, C. and **Wong, W. K.** (2013). Optimal Experimental Designs for Mixture Experiments with Amount Constraints. Statistics & Probability Letters, Vol. 83, 196-202.
- 140 **Wong, W. K.**, Sverdlov, O., Lewis, R. (2013). Commentary on Discussion Paper "Group Sequential Tests for Delayed Responses" by Hampson, L. V. and Jennison, C. J. Journal of Royal Statistical Society, Series B, Vol. 75, 49-50.
- 141 Jaynes, J., Ding, X., Xu, H. and **Wong, W. K.** and Ho, C.M. (2013). An Application of Fractional Factorial Designs to Study Drug Combinations. Statistics in Medicine, Vol. 32, 307-318.
- 142 **Wong, W. K.** (2013). Web-based Tools for Finding Optimal Experimental Designs. Computer Programs and Methods in Biomedicine, Vol. 111, 701-710.
- 143 Ryznik, Y., Sverdlov, O. and **Wong, W. K.** (2015). RARtool – a Software Package for Designing Randomized Response-Adaptive Clinical Trials with Time-to-Event Outcomes. Journal of Statistical Software. Aug 1;66(1). pii: <https://www.jstatsoft.org/article/view/v066i01>.
- 144 Park, G. S., **Wong, W. K.**, Khanna, D., Gold, R. H. and Paulus, H. E. for the Consortium of Practicing Rheumatologists. (2013). Examining Radiographic Outcomes Over Time. Rheumatology International, Vol. 34, issue 2, 271-279.
- 145 Crespi, K. M. and **Wong, W. K.** (2013). Commentary on Discussion Paper "How to Find an Appropriate Clustering for Mixed Type Variables with Application to Socioeconomic Stratification" by Hennig, C. and Liao, T.F. (2013), 62, 1-25. Journal of Royal Statistical Society, Series C, Vol. 62, Part 3, 309-369.
- 146 Fueki, K., Roumanas, E. D., Blackwell, K. E., Freymiller, E., Abemayor, E., **Wong, W. K.**, Kapur, K. K., Garrett, N. (2014). Effect of implant-support for prostheses on electromyographic activity of masseter muscle and jaw movement in patients after mandibular fibula free-flap reconstruction. The International Journal of oral and Maxillofacial Implants, Vol. 29, #1, 162-170.

- 147 Qiu, J. H., Chen, R. B., Wang, W.C. and **Wong, W. K.** (2014). Using Animal Instincts to Design Efficient Biomedical Studies. Swarm and Evolutionary Computation Journal, Vol. 18, 1-10.
- 148 Wong, K. F, **Wong, W. K.** and Lin, M. S. (2014). Forward Selection Two Sample Binomial Test. Journal of Data Science, Vol. 12, #4, 279-294.
- 149 Li, J. L., Chow, Y., **Wong, W. K.**, Wong, T. Y. (2014). Sorting Multiple Classes in Multi-dimensional ROC Analysis: Parametric and Nonparametric Approaches. Biomarkers, Vol.19, #1, 1-8.
- 150 Li, H. Q., Tang, M.L, and **Wong, W. K.** (2014). Confidence Intervals for Ratio of Two Poisson Rates using Recovery Methods. Computational Statistics, Vol. 29, Issue 3-4, 869-889.
- 151 Duarte, B. P. M. and **Wong, W. K.** (2014). A Semi-Infinite Programming Based Algorithm for Finding Minimax D-Optimal Designs for Nonlinear Models. Statistics and Computing, Vol. 24, issue 6, 1063-1080. DOI: 10.1007/s11222-013-9420-6
- 152 Song, J., Boscardin, W. J., Furst, D. E., Khanna, D. and **Wong, W. K.** (2014). A Cautionary Tale: Dealing with Missing Data in Clinical Trials for Rheumatic Diseases. Clinical and Experimental Rheumatology, Vol. 32, (6 Suppl 86): S-122-126.
- 153 McMahon, M., Skaggs, B. J., Grossman, J., Sahakian, L., **Wong, W. K.**, FitzGerald, J., Lourenco, E., Ragavendra, N., Charles-Schoeman, C., Gorn, A., Karpouzas, G., Taylor, M., Watosn, K., Weissman, M., Wallace, D. J. and Hahn, B. H. (2014). A Panel of Biomarkers Is Associated with Increased Risk of the Presence and Progression of Atherosclerosis in Women with Systemic Lupus Erythematosus. Arthritis and Rheumatism, Vol. 66, #1, 130-139.
- 154 Sverdlov, O., Ryznik, Y., and **Wong, W. K.** (2014). Efficient and Ethical Response-Adaptive Randomization Designs for Multi-Arm Clinical Trials with Weibull Time-to-Event Outcomes. Journal of Biopharmaceutical Statistics, Vol. 24, #4, 732-754.
- 155 Sverdlov, O. and **Wong, W. K.** (2014). Novel Statistical Designs for Phase I/II and Phase II Clinical Trials with Dose Finding Objectives. Therapeutic Innovation & Regulatory Science, Vol. 48, #5, 601-612.
- 156 Khanna, D., Berrocal, V. J., Giannini, E. H., Seibold, J. R, Merkel, P. A., Mayes, M. D, Baron, M., Clements, J. P., Steen, V., Shervin Assassi, S., Schiopu, E., Phillips, K., Simms, R. W., Allanore, Y., Denton, C. P., Distler, O., Sindhu R. Johnson, S. R., Matucci-Cerinic, M., Pope, J., Proudman, S. M., Siegel, J., **Wong, W. K.**, Wells, A. U., and Furst, D. E. (2014). Development and initial validation of a composite response index for clinical trials in early diffuse cutaneous systemic sclerosis. Arthritis & Rheumatology, 66, S1311-S1312.
- 157 Phalen, R.N. and **Wong, W.K.** (2014). Polymer Properties Associated with Chemical Permeation Performance of Disposable Nitrile Rubber Gloves. Journal of Applied Polymer Science, Vol. 132, #41449. DOI: 10.1002/app.41449.
- 158 Ryznik, Y., Sverdlov, O. and **Wong, W. K.** (2014). Adaptive Clinical Trial designs for Phase 1 Cancer Studies. Statistical Surveys, Vol. 8, 2-44.
- 159 Kao, M. H., Temkit, M. and **Wong, W. K.** (2014). Recent Developments in Optimal Experimental Designs for functional MRI. World Journal of Radiology, Vol. 6, #7, 437-445.
- 160 Phalen, R. N., Le, T. and **Wong, W. K.** (2014). Changes in Chemical Permeation of Disposable Latex, Nitrile and Vinyl Gloves Exposed To Simulated Movement. Journal of Occupational and Environmental Hygiene, Vol. 11, #11, 716-721. DOI:10.1080/15459624.2014.908259
- 161 Bastani, R., Glenn, B. A., Maxwell, A. E., Jo, A. M., Hermann, A. K., Crespi, C. M., **Wong, W. K.**, Chang, L. C., Stewart, S. L., Nguyen, T. T., Chen M. S, Taylor, V. M. (2015). Cluster-Randomized Trial to Increase Hepatitis B Testing among Koreans in Los Angeles. Cancer Epidemiology, Biomarkers & Prevention, Vol. 24, # 9,1341-1349.
- 162 Hyun, S. W. and **Wong, W. K.** (2015). Multi-objective Optimal Designs for Studying a Dose Response Function and Interesting Dose Levels. International Journal of Biostatistics, Vol. 11, #2, 253-271.
- 163 Duarte, B. P. M. and **Wong, W. K.** (2015). Finding Bayesian Optimal designs for nonlinear models: A

- Semidefinite Programming-Based Approach. International Statistical Review, vol. 83, #2, 239-262. DOI:10.1111/insr.12073
- 164 **Wong, W. K.**, Chen, R. B., Huang, C. C. and Wang, W.C. (2015). A Modified Particle Swarm Optimization Technique for Finding Optimal Designs for Mixture Models. PLoS ONE 10(6): e0124720. doi:10.1371/journal.pone.0124720.
- 165 Chen, R. B., Wang, W.C., Chang, S. P. and **Wong, W. K.** (2015). Minimax Optimal Designs via Particle Swarm Optimization Methods. Statistics and Computing, Vol. 25, 975-988.
- 166 Duarte, P.M. B., **Wong, W. K.** and Oliveira, N. M. C. (2015). Mode-Based Optimal Design of Experiments – Semidefinite and Nonlinear Programming Formulations. Chemometrics and Intelligent Laboratory Systems. Vol. 151, 153-163.
- 167 Mandal, A., **Wong, W. K.** and Yu, Y. (2015). Algorithmic Searches for Optimal Designs, 755-783 in Chapter 21 of Handbook of Design and Analysis of Experiments, edited by Bingham, D., Dean, A., Morris, M. and Stufken, J. CRC.
- 168 Moerbeek, M. and **Wong, W. K.** (2015). Optimal Treatment Allocation for Placebo-Treatment Comparison in Trials with Discrete-Time Survival Endpoints. Statistics in Medicine, Vol. 34, #27, 3490-3502.
- 169 Chen, H. W., Xu, H and **Wong, W. K.** (2016). Data-driven Desirability Function to Measure Patients' Disease progression in a Longitudinal Study. Journal of Applied Statistics, Vol. 43, #5, 783-795.
- 170 Telesca, D. and **Wong, W. K.** (2015). Commentary on Discussion paper 'Sequential Quasi-Monte-Carlo Sampling' by Gerber & Chopin. Journal of Royal Statistical Society, Series. B, Vol. 77, #3, 509-579.
- 171 Friedlander, A. H., Chang, T. I., Hazboun, R., Saden, S. M., Harada, N. D., **Wong, W. K.** and Garrett, N. R. (2015). Detection of Carotid Artery Calcification on the Panoramic Images of Postmenopausal Women is Significantly Associated with Severe Abdominal Aortic Calcification - a Risk Indicator of Future Adverse Vascular Events. Dentomaxillofacial Radiology, Vol. 44, #7, DOI: <http://dx.doi.org/10.1259/dmfr.20150094>.
- 172 Duarte, B. P. M., **Wong, W. K.** and Atkinson, A. C. (2015). A Semi-Infinite Programming Based Algorithm for Determining T-optimum Designs for Model Discrimination. Journal of Multivariate Analysis, Vol. 135, 11-24.
- 173 Glenn, B. A., Lin, T., Chang, L. C., Okada, A., **Wong, W. K.**, Glanz, K. and Bastani, R. (2015). Sun Protection Practices and Sun Exposure among Children with a Parental History of Melanoma. Cancer Epidemiology, Biomarkers & Prevention, Vol. 24, #1, 169-177. doi: 10.1158/1055-9965.EPI-14-0650
- 174 Shao, F., Li, J., Fine, J. P., **Wong, W. K.** and Pencina, M. J. (2015). Inference for Reclassification Statistics under Nested and Non-Nested Models for Biomarker Evaluation. Biomarkers, Vol. 20, #4, 240-252.
- 175 Chen, R. B., Chen P. Y., Tung, H. C. and **Wong, W. K.** (2015). Exact D-optimal Designs for Michaelis-Menten Model with Correlated Observations by Particle Swarm Optimization. Festschrift in Honor of Hans Nyquist on the Occasion of His 65<sup>th</sup> Birthday, (editor: Ellinor Fackle-Fornius), 60-73. Department of Statistics, Stockholm University.
- 176 Jaynes, J., Xu, H. and **Wong, W. K.** (2016). Using blocked fractional factorial designs to construct Discrete Choice Experiments for Healthcare Studies. Statistics in Medicine, Vol. 35, 2543-2560.
- 177 Phoa, K. H. F., Chen, R. B., Wang, W. C. and **Wong, W. K.** (2016). Optimizing Two-level Supersaturated Designs using Swarm Intelligence Techniques. Technometrics, Vol.58, #1, 43-49.
- 178 Fang, X., Li, J. L., **Wong, W. K.** and Fu, B. (2016). Detecting the Violation of Variance Homogeneity in Mixed Models: a Case Study. Statistical Methods in Medical Research, Vol. 25, #6, 2506-2520. DOI: 10.1177/0962280214526194
- 179 Shen, G., Hyun, S. W. and **Wong, W. K.** (2016). Optimal Designs Based on the Maximum Quasi-Likelihood Estimator. Journal of Statistical Planning and Inference, Vol. 178, 128-139.

- 180 Masoudi, E., Holling, H. and **Wong, W. K.** (2017). Application of Imperialist Competitive Algorithm to Find Minimax Optimal Designs. Computational Statistics and Data Analysis, Vol. 113, 330-345. <http://dx.doi.org/10.1016/j.csda.2016.06.014>
- 181 Huang, S. H., Huang, M. L., Shedden, K. and **Wong, W. K.** (2017). Optimal Group-Testing Designs with Testing Errors. Journal of Royal Statistical Society, Series. B. Vol. 79, #5, 1547-1563.
- 182 Wu, S., **Wong, W. K.** and Crespi, C. M. (2017). Maximin Optimal Designs for Cluster Randomized Trials with Binary Outcomes. Biometrics, Vol. 73, #3, 916-926. doi: 10.1111/biom.12659.
- 183 **Wong, W. K.**, Yin, Y. and Zhou, J. (2017). Using SeDuMi to Find Various Optimal Designs for Regression Models. Statistical Papers: <https://doi.org/10.1007/s00362-017-0887-7>
- 184 Dette, H., Kettelhake, K., **Wong, W. K.** and Bretz, F. (2017). Optimal Designs for Active Controlled Dose-Finding Trials with Efficacy-Toxicity Outcomes. Biometrika, Vol. 104, #4, 1003-1010.
- 185 Jaynes, J., Xu, H. and **Wong, W. K.** (2017). Minimum Aberration for Discrete Choice Experiments. Journal of Statistical Theory and Practice, Vol. 11, #2, 339-360.
- 186 Kim, S. and **Wong, W. K.** (2018). Extended Two-stage Adaptive Designs for Three-Target Responses for Phase II Clinical Trials. Statistical Methods in Medical Research, Vol. 27, #12, 3628-3642.
- 187 Chen, R. B., Chen, P. Y. and **Wong, W. K.** (2018). Standardized Maximin D-optimal Designs for Pharmacological models via Particle Swarm Optimization Techniques. Chemometrics and Intelligent Laboratory Systems, Vol. 169, 79-86.
- 188 Casero-Alonso, V., Pepelyshev, A. and **Wong, W. K.** (2018). A Web-Based Tool for Designing Experimental Studies to Detect Hormesis and Estimate the Threshold Dose. Statistical Papers, Vol. 59, #4, 1307-1324.
- 189 Dette, H., Guchenko, R., Melas, V. B. and **Wong, W. K.** (2018). Optimal Discrimination Designs for Semiparametric Models. Biometrika, Vol. 105, #1, 185-197.
- 190 Hyun, S. W., **Wong, W. K.** and Yang, Y. (2018). VNM: A R Package for Finding Multiple-Objective Optimal Designs for the 4-Parameter Logistic Model. Journal of Statistical Software, Vol. 83, #5. 10.18637/jss.v083.i05
- 191 Duarte, D. P. M., Sagnol, G. and **Wong, W. K.** (2018). An Algorithm Based on Semidefinite Programming for finding Minimax Optimal Designs. Computational Statistics and Data Analysis, Vol. 119, 99-117.
- 192 Duarte, D. P. M., **Wong, W. K.** and Dette, H. (2018). Adaptive Grid Semidefinite Programming for Finding Optimal Designs. Statistics and Computing, Vol. 28, #2, 441-460.
- 193 **Wong, W. K.** Yin, Y. and Zhou, J. (2018). Optimal Designs for Multi-Response Nonlinear Regression Models with Several Factors via Semidefinite Programming. Journal of Computational and Graphical Statistics, Vol. 28, #1, 61-73.
- 194 Lukemire, J., Mandal, A. and **Wong, W. K.** (2018). d-QPSO: A Quantum-Behaved Particle Swarm Technique for Finding D-optimal Designs with Discrete and Continuous Factors and a Binary Response. Technometrics, Vol. 61, #1, 77-87. <https://doi.org/10.1080/00401706.2018.1439405>
- 195 Li, J. L., Xia, X., **Wong, W. K.** and Nott, D. (2018). Varying Coefficient Semiparametric Model Averaging Prediction. Biometrics, Vol. 74, #4, 1417-1426.
- 196 **Wong, W. K.** and Zhou, J. (2018). CVX based Algorithms for Constructing Various Optimal Regression Designs. Canadian Journal of Statistics, Vol. 47, #3, 374-391.
- 197 Duarte, B. M. P. and **Wong, W. K.** (2018). Optimal Design of Multiple-Objective Lot Quality Assurance Sampling plans. Biometrics, Vol. 75, #2, 572-581.
- 198 Liu, X., Yue, R. X. and **Wong, W. K.** (2018). D-optimal Design for the Heteroscedastic Berman Model on an Arc.



- 199 Liu, X., Yue, R. X. and **Wong, W. K.** (2018). D-optimal Designs for Multi-Response Linear Mixed Models. Metrika, Vol. 82, #1, 87–98.
- 200 Yue, Y., Vandenberghe, L. and **Wong, W. K.** (2018). T-optimal Designs for Multi-Factor Polynomial Regression Models via a Semidefinite Relaxation Method. Statistics & Computing, Vol. 29, #4, 725-738.
- 201 Kim, S. and **Wong, W. K.** (2018). Commentary on Discussion Paper “Optimal Treatment Allocations in Space and Time for On-line Control of an Emerging Infectious Disease.” JRSS C, Vol. 67, #4, 778-779.
- 202 Kim, S. and **Wong, W. K.** (2019). Commentary on Discussion Paper “From Start to Finish: A Framework for the Production of Small Area Official Statistics” by Tzavidis, Zhang, Luna, Schmid and Rojas-Perilla. JRSS A, Vol. 181, #4, 969-970.
- 203 Kim, S. and **Wong, W. K.** (2019). Phase II Two-Stage Single-Arm Clinical Trials for Testing Toxicity Levels. Communications for Statistical Applications and Methods, Vol. 26, #2, 163-173.
- 204 Xu, W., **Wong, W. K.**, Tan, K. C. and Xu, J. X. (2019). Finding High-Dimensional D-Optimal Designs for Logistic Models via Differential Evolution. IEEE Access, Vol. 7 (1), 7133-7146. 10.1109/ACCESS.2018.2890593
- 205 Li, J. L. and **Wong, W. K.** (2019). Commentary on Discussion Paper “Covariate Assisted Ranking and Screening for Large-Scale Two-Sample Inference” by Cai, T. T., Sun, W. and Wang, W.” JRSS B, Vol. 81, 187–234.
- 206 Wang, J., Li, J. L., Li, Y. and **Wong, W. K.** (2019). A Model-Based Multi-Threshold Method for Subgroup Identification. Statistics in Medicine, Vol. 38, #14, 2605-2631.
- 207 Hyun, S. W., **Wong, W. K.** and Yarong, Y. (2020). Optimal Designs for Asymmetric Sigmoidal Response Curves in Bioassays and Immunoassays. Statistical Methods in Medical Research, Vol. 29, #2, 421–436.  
<https://doi.org/10.1177/0962280219832631>
- 208 Duarte, B. P. M., Granjo, J. F. O. and **Wong, W. K.** (2020). Optimal Exact Designs of Experiments via Mixed Integer Nonlinear Programming. Statistics and Computing, Volume 30, #1, 93–112.
- 209 Masoudi, E., Holling, H., Duarte, B. P. M. and **Wong, W. K.** (2019). Metaheuristic Adaptive Cubature Based Algorithm to Find Bayesian Optimal Designs for Nonlinear Models. Journal of Computational and Graphical Statistics, Vol. 28, #4, 861-876.
- 210 Shi, Y., Zhang, Z. and **Wong, W. K.** (2019). Particle Swarm-Based Algorithms for Finding locally and Bayesian D-optimal Designs. Journal of Statistical Distributions and Applications, Vol. 6, #3.
- 211 Shi, Y., **Wong, W. K.**, Goldin, J., Brown, M. S. and Kim, H. J. (2019). Prediction of Progression in Idiopathic Pulmonary Fibrosis using Quantum Particle Swarm Optimization Hybridized Random Forest. Artificial Intelligence in Medicine, Vol. 100. In press. <https://doi.org/10.1016/j.artmed.2019.101709>
- 212 Mchanon, M., Skaggs, B. J., Grossman, J., Sahakian, L., Chen, W., Hahn, B. and **Wong, W. K.** (2019). Comparison of PREDICTS Atherosclerosis Biomarker Changes After Initiation of New Treatments in Patients with Systemic Lupus Erythematosus. Lupus Science and Medicine. 6:e000321. doi:10.1136/lupus-2019-000321
- 213 Garca-Rodenas, R., Garcia-Garcia, J. C., Lopez-Fidalgo, J., Martin-Baos, J. A. and **Wong, W. K.** (2020). A Comparison of General-Purpose Optimization Algorithms for Finding Optimal Approximate Experimental Designs. Computational Statistics and Data Analysis. Vol. 144, <https://doi.org/10.1016/j.csda.2019.106844>.
- 214 Sverdlov, O., Ryznik, Y. and **Wong, W. K.** (2020). On Optimal Designs for Multi-objective Clinical Trials: An updated review. Journal of Statistical Theory and Practice, Vol. 14, #10,1-29.
- 215 Yen, Y. F., Lee, Y. L., Hu, H. Y., Sun, W. J., Ko, M. C., Chen, C. C., **Wong, W. K.**, Morisky, D. E., Huang, S. J. and Chu, D. (2020). Early palliative care: the surprise question and the palliative care screening tool—better together. BMJ Supportive & Palliative Care. doi: 10.1136/bmjspcare-2019-002116.

- 216 Kim, Seongho, Hooker, A., Shi, Y., Kim, G. and **Wong, W. K.** (2021). Metaheuristics for Pharmacometrics. American Society for Clinical Pharmacology & Therapeutics: Journal & Systems Pharmacology. In press.
- 217 Stokes, Z., Mandal, A. and **Wong, W. K.** (2020). Using Differential Evolution to Design Optimal Experiments. Chemometrics and Intelligent Laboratory Systems, Vol. 199, 103955.
- 218 Zhang, Z., **Wong, W. K.** and Tan, K. C. (2020). Competitive Swarm Optimizer with Mutated Agents for Finding Optimal Designs for Nonlinear Regression Models with Multiple Interacting Factors. Memetic Computing, Vol. 12, 219-233.
- 219 Schepps, M., Seurat, J., Mentre, F. and **Wong, W. K.** (2021). Metaheuristics for Finding Efficient Longitudinal Designs for Bipolar Subjects With and Without a Genetic Covariate and Treated with Lithium. JRSS C. Under Review.
- 220 Kim, G., Shi, Y., Yu, W. and **Wong, W. K.** (2021). A Study Design for Machine Learning Technique to predict the Likelihood of Progression with an Application of Idiopathic Pulmonary Fibrosis using Chest CT Images. Contemporary Clinical Trials. In press.
- 221 Fei, Z., Ryznik, Y., Sverdlovo, O., Tan, C. W. and **Wong, W. K.** (2021). Recent Advances in Data Science. IEEE Transactions Big Data. In press.
- 222 Collins, M. D. and **Wong, W. K.** (2021). A Model-based Approach to Designing Developmental Toxicology Experiments using Sea Urchin Embryos. Archives in Toxicology. In press.
- 223 Yu, W., Zhou, H., Goldin, J. G., **Wong, W. K.** and Kim, G. H. (2021). End-to-End Domain Knowledge Assisted Automatic Diagnosis of Idiopathic Pulmonary Fibrosis (IPF) using High Resolution Computed Tomography (HRCT). Medical Physics, Vol. 48, #5, 2458-2467.
- 224 Montipeda, G., Hooker, A., **Wong, W. K.** (2021). Optimizing the Design of a Pharmacokinetic Trial to Evaluate the Dosing Scheme of a Novel Tuberculosis Drug in Children Living with HIV. To be submitted.
- 225 Lukemire, J., Mandal, A. and **Wong, W. K.** (2021). Optimal Experimental Designs for Ordinal Models with Mixed Factors for Industrial and Healthcare Applications. Journal of Quality Technology. In press.
- 226 Kim, S. H., **Wong, W. K.** and Carriere, K. C. (2021). Optimal Crossover Design under Unequal Treatment Variance Assumption. JRSS B. To be Submitted.
227. Chen, R. B., Chen, P. Y., Hsu, C. L. and **Wong, W. K.** (2020). Hybrid Algorithms for Generating Optimal Designs for Discriminating Multiple Nonlinear Models under Various Error Distributional Assumptions. PlosOne, 15(10):e0239864.
228. Wang, L., Xu, H. and **Wong, W. K.** (2021). Large Orthogonal Subsampling for Big Data Linear Regression. Annals of Applied Statistics. In press.
229. Tong, T. X., Choi, K. P., Lai, T. L. and **Wong, W. K.** (2021). Stability Bounds and Almost Sure Convergence of Improved Particle Swarm Optimization Methods. Research in Mathematical Sciences. In press.
- 230 Lai, T. L., Choi, K. P., Tong, T. X., and **Wong, W. K.** (2021). A Statistical Approach to Adaptive Parameter Tuning in Nature-inspired Optimization and Optimal Sequential Design of Dose-Finding Trials. Statistica Sinica. In press.
- 231 Ushijima, T., Yeh, W. and **Wong, W. K.** (2021). Constructing Robust and Efficient Experimental Designs in Groundwater Modeling using a Galerkin Method, Proper Orthogonal Decomposition and Metaheuristic Algorithms. PlosOne. <https://doi.org/10.1371/journal.pone.0254620>.
- 232 Sverdlov, O., Ryznik, Y., Reynik, Y., Montipeda, G., Hooker, A., **Wong, W. K.** (2021). Pharmacometrics meets statistics – A synergy for the new drug development. American Society for Clinical Pharmacology & Therapeutics: Journal & Systems Pharmacology. In press.
- 233 Liu, X., Yue, R. X., Zhang, Z. and **Wong, W. K.** (2021). G-optimal designs for hierarchical linear models: an equivalence theorem and a nature-inspired meta-heuristic algorithm. Soft Computing. In press.

- 234 Liu, X., Yue, R. X. and **Wong, W. K.** (2021). Equivalence Theorems for c, D, and A-optimality for Linear Mixed Effects Models with Applications to Multi-treatment Group Assignments. Scandinavian Journal of Statistics. In press.
- 235 Ryu, H., Hooker, A. and **Wong, W. K.** (2021). Design Evaluation and Optimization of Population Pharmacokinetics Model using an Optimization Tool 'PopED'. Biopharmaceutical Statistics. Under Review.
- 236 Sverdlov, O., Ryznik, Y. and **Wong, W. K.** (2021). Opportunity for efficiency in clinical development: An overview of adaptive clinical trial designs and innovative machine learning tools, with examples from the cardiovascular field. Contemporary Clinical Trials. In press.
- 237 Lukemire, J., Mandal, A., Xiao, Q. and Wong, W. K. (2021). Statistical Analysis of Complex Computer Models in Astronomy. European Physical Journal Special Topics: Modeling, Machine Learning and Astronomy. <https://doi.org/10.1140/epjs/s11734-021-00204-y>.
- 238 Sverdlov, O., Ryznik, Y. Reznik, Y. and **Wong, W. K.** (2021). Rationales for Imbalanced randomization. Statsref: Statistics Reference Online Journal. Wiley.
- 239 Chen, P. Y., Chen, R. B., Chen, Y. S. and **Wong, W. K.** (2021). Metaheuristics for Finding  $\$A\$$ -optimal Designs Analytically. Econometrics & Statistics. Under review.
- 240 Chen, P. Y., Chen, R. B. and **Wong, W. K.** (2021). Particle Swarm Optimization for Searching Efficient Experimental Designs – a review. Wires Journal. Under Review.
- 241 Choi, A. and **Wong, W. K.** (2021). Commentary on 'Assumption-lean inference for generalised linear model parameters' by Stijn Vansteelandt and Oliver Dukes. JRSS B.
- 242 Wenxi Yu, Hua Zhou, Youngwon Choi, Jonathan G. Goldin, Pangu Teng, **Wong, W. K.**, Michael F. McNitt-Gray, Matthew S. Brown, Grace Hyun J. Kim. (2021). MSGA+RF: A Two-stage Deep Learning-based Multi-scale Guided Attention Models to Diagnose Idiopathic Pulmonary Fibrosis from CT Images. IEEE Biomedical Imaging. Under Review.
- 243 Vazquez, A. R., **Wong, W. K.** and Goos, P. (2021). Constructing Two-level QB-optimal Designs for Screening Experiments Using Mixed Integer Programming and Heuristic Algorithms. JCGS. Submitted.
- 244 Zhang, Z. and **Wong, W. K.** (2021). Constructing Optimal Designs for Nonlinear Longitudinal Mixed-Effects Models using Competitive Swarm Optimizer with Mutated Agents. IEEE Transactions on Artificial Intelligence. To be submitted.
- 245 Stehlik, M., Chen, P. Y., **Wong, W. K.** and Kisevlak, J. (2021). Double exponential Particle swarm optimization algorithm. To be submitted.
- 246 **Wong, W. K.** and Zhou, J. (2021). Multiple-Objective and Maximin Optimal Designs for Biomedical Problems via CVX. JCGS. Submitted.
- 247 Luna, J., Jaynes, J., Xu, H. and **Wong, W. K.** (2021). Orthogonal Array Composite Designs for Drug Combination Experiments with Applications for Tuberculosis. Statistics in Medicine. Under Review.
- 248 Carlos de la Calle-Arroyo, Mariano Amo-Salas, Jesús López-Fidalgo, Licesio J. Rodríguez-Aragón and **Wong, W. K.** (2021). Improving D-optimal designs. JASA. Under Review.
- 249 Cook, A. R, Choi, K. P. and **Wong, W. K.** (2021). Commentary on Small Data, Big Time—A retrospect of the first weeks of COVID-19 ' by Zhao, Q.. JRSS A. In press.

### **IC Books/Monographs:**

- 1 Flournoy, N., Rosenberger, W. F. and **Wong, W. K.** (1998). Co-editors. New Developments and Applications in Experimental Design. IMS Lecture Notes-Monograph Series Vol. 3.

- 2 Berger, M. P. F. and **Wong, W. K.** (2005). Co-editors. Applied Optimal Designs. John Wiley & Sons,
- 3 Berger, M. P. F. and **Wong, W. K.** (2009). An Introduction to Optimal Designs with Applications to Social and Biomedical Research. John Wiley & Sons,

### **1D Book Review:**

1. Regression with Graphics; A second course in applied statistics by Lawrence C. Hamilton, Journal of the American Statistical Association (1993), Vol. 88, 383-384.
2. Statistical Linear Models by Stapleton, James H., Journal of the American Statistical Association (1996), Vol. 91, 909-910.
3. The Practice of Data Analysis; Essays in Honor of John Tukey, editors: Brillinger, Ferholz and Morgenthaler. Statistics in Medicine (1997). Princeton University Press.
4. Book Reviewer for Springer-Verlag Company (1998).
5. Book Reviewer for Springer-Verlag Company (2001).
6. Book Reviewer for Springer-Verlag Company (2014).
7. Book Reviewer for Springer-Verlag Company (2018)
8. Book Reviewer for Chapman-Hall Company (2019)

### **IE Reviewer for Scientific Journals:**

To date, I have refereed for more than 65 different journals, *excluding papers I have handled as an associate editor, which averages about 8 papers per year, excluding revisions:*

- 1 Behavior Research Methods, 2015(1)
- 2 Biometrika, 1992(1), 2021(1)
- 3 Biometrical Journal, 2009(1), 2011(1)
- 4 Biometrics, 2019(2)
- 5 BMC Medicine, 2019(1)
- 6 BMC Medical Research Methodology, 2019(1)
- 7 Canadian Journal of Statistics, 1998(1), 2002(1), 2003(1), 2004(1), 2005(1)
- 8 Chemometrics and Intelligent Laboratory Systems, 2017(1)
- 9 Clinical Trials, 2007(1)
- 10 Communications in Statistics, Theory and Methods, 1991(1), 2003(1)
- 11 Communications in Statistics, Simulations and Computations, 2000(1), 2002(1), 2009(1), 2010(1)
- 12 Computational Statistics and Data Analysis, 1994(1), 2003(3), 2006(2), 2009(1), 2012(1), 2016(2), 2017(3)
- 13 Computer Methods and Programs in Biomedicine, 2012(1), 2015(1)
- 14 COMPSTAT, 2004(1)
- 15 Contemporary Clinical Trials, 2009(2), 2010(2), 2011(2), 2012(1)
- 16 Controlled Clinical Trials, 2002(1)
- 17 Educational Research and Review, 2011(1)
- 18 Entropy, 2015(1)
- 19 Journal of Applied Statistics, 2008(1)
- 20 Journal of Applied Stochastic Models in Business and Industry, 2015(1)
- 21 Journal of Biopharmaceutical Statistics, 2018(1)
- 22 Journal of Computational and Graphical Statistics, 2015(1)
- 23 Journal of Education and Behavioral and Statistics, 2010(1)
- 24 Journal of Multivariate Analysis, 1997(1), 2001(1)
- 25 Journal of Pharmaceutical Statistics, 2016(1)
- 26 Journal of Society of Clinical Trials, 2007(1), 2008(1)
- 27 Journal of Statistical Computing and Simulation, 1992(1)
- 28 Journal of Statistical Modelling, 2006(1)
- 29 Journal of Statistical Planning and Inference, 1991(1), 1996(1), 1997(3), 1998(1), 2000(1), 2002(1), 2003(1), 2004(3), 2005(2), 2008(1), 2009(1), 2011(2), 2012(1), 2019(1)
- 30 Journal of the American Statistical Association, 1993(2), 2002(1), 2006(1), 2010(1), 2011(1), 2014(1)
- 31 Journal of the Royal Statistical Society, Series B, 1994(1), 1995(1), 1996(1)
- 32 Journal of the Royal Statistical Society, Series C, 2013(1)
- 33 Metrika, 2011(1)
- 34 Open Journal of Statistics, 2017(1)
- 35 PLOSone, 2017(1), 2018(1)
- 36 Psychometrika, 2000(1), 2020(1)
- 37 R. C. Bose Birthday Celebration Research Volume, 2003(1)
- 38 Science China Mathematics, 2013(1), 2015(1), 2016(1)

9/1/2021

- 39 Statistics, 2008 (1)
- 40 Statistics and Computing, 2011(1), 2015(2)
- 41 Statistics and Probability Letters, 2000(1), 2007(1)
- 42 Statistics in Biostatistics, 2019(1)
- 43 Statistics In Medicine, 1992(1), 2001(1), 2006(2), 2008(2), 2009(2), 2010(1), 2011(1), 2013(3), 2014 (3)  
2016 (2), 2017(2), 2018(2), 2019(2)
- 44 Statistical Methods in Medical Research, 2012(2)
- 45 Statistical Papers, 2015(1)
- 46 Statistical Sinica, 1998(1), 1999(1), 2008(2), 2010(1), 2012(2), 2013(1), 2015(1)
- 47 Technometrics, 2004(1)
- 48 Test, 2015(1)
- 49 The Annals of Statistics, 1992(1), 1994(1), 1995(1), 1997(1), 2006(1), 2009(2), 2010(1), 2011(2), 2012(2),  
2013(1)
- 50 The Annals of the Institute of Statistical Mathematics, 1993(1), 1995(1)
- 51 The Journal of Experimental Education, 2019 (1)
- 52 Reviewer, Journal of Multivariate Analysis, 2019(1)
- 53 Statistics in Biosciences 2019(1)

### **Non-statistical journals**

- 1 Arthritis and Rheumatism, 2002(1)
- 2 Current Nanomedicine, 2017(1)
- 3 Engineering Optimization, 2018(1)
- 4 IEEE Transactions on Cybernetics, 2018(1)
- 5 Journal of Biochemical and Biophysical Methods, 2002(1)
- 6 Journal of Chronic Disease, 2007(1), 2008(1)
- 7 Journal of Industrial Management & Data Management, 2014(1)
- 8 Journal of International of Applied Mathematics & Computations, 2001(1)
- 9 Journal of the Australian Mathematical Society, Series B: Applied Mathematics, 2001(1)
- 10 Methods of Information in Medicine (2014)
- 11 Mathematical Reviews, 1995(1), 1996(2), 1997(3), 1999(2)
- 12 Natural Computing, 2015 (1)
- 13 Neural Computing and Applications, 2017 (1), 2018(1)
- 14 Probabilistic Engineering Mechanics, 2015 (1)
- 15 Journal of Pediatric Rehabilitation Medicine, 2020(1)
- 16 SN Operations Research Forum 2021(1)

### **IF A Few Contributed and Mostly Invited Talks at Scientific Meetings/Workshops:**

- 1 Centre de Recherches Mathematiques, University of Montreal, Montreal, Canada, May 8, 1990.
- 2 Workshop on Design of Experiments, University of Tampere, Finland, 2-5th August 1990.
- 3 Joint Statistical Meetings, Boston, 11th August 1992.
- 4 Poster Session, International Biometric Conference, New Zealand, 10th December 1992.
- 5 Model-Oriented and Data Analysis Conference, Spetses, Greece, 4th June 1995.
- 6 Invited Poster Session, Bath, England 30-2nd July 1995.
- 7 Third World International Society for Bayesian Analysis, Oaxaca, Mexico, 29-30th September 1995.
- 8 Joint Research Conference on Statistics in Quality, Industry and Technology at NIST, Gaithersburg, MD,  
29-31st May, 1996.
- 9 XII Symposium on Computational Statistics, Barcelona, Spain, 26-30th September 1996.
- 10 IMS Conference, Academia Sinica, Taipei, Taiwan, 7-9th July 1997.
- 11 Sixth Southern Taiwan Conference in Statistics, National Independence University, Taichung, Taiwan, 10th  
July, 1997.
- 12 Joint Statistical Meetings, Anaheim, California, 10-14th August 1997.
- 13 Workshop on Experimental Design, Irsee, Germany, 5-8th October 1997.
- 14 Model-Oriented Data Analysis and Experimental Designs Conference 5, Centre International De  
Rencontres Mathematiques (CIRM), Marseilles, France, 22-26th June 1998.
- 15 3rd St. Petersburg Workshop on Simulation, St. Petersburg, Russia, 28-3rd July, 1998 (two talks)
- 16 Conference in Applied Statistics, Salamanca, Spain, 6-10<sup>th</sup>, July 1998. (keynote address)
- 17 Conference in Applied Statistics, Salamanca, Spain, 6-10th July 1998. (Invited session)
- 18 Joint Statistical Meetings, Dallas, Texas, 8-13th August 1998. (Pharmaceutical Invited Session)
- 19 International Biometric Conference, Cape Town, South Africa, December 13-18<sup>th</sup>, 1998.
- 20 International Biometric Conference, Cape Town, South Africa, December 13-18th 1998. (Invited session)

- 21 Joint Statistical Meetings, Atlanta, Georgia, 8-13th August 2001. (ENAR Invited session)
- 22 International Conference on Applied Statistics, Actuarial Science and Financial Mathematics, University of Hong Kong, Hong Kong, 17-19<sup>th</sup> Dec. 2002.
- 23 Bernoulli Society East Asian and Pacific Regional (EAPR) Conference 2003, The Hong Kong University of Science and Technology, 18-20<sup>th</sup> December, 2003.
- 24 International Chinese Statistical Association Applied Statistics Conference, La Jolla, 22-24<sup>th</sup> June 2004.
- 25 Sixth International Chinese Statistical Association International Conference, National University of Singapore, Singapore 21-23rd July 2004.
- 26 Joint Statistical Meetings, Toronto, 6-10<sup>th</sup> August 2004.
- 27 14<sup>th</sup> Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS) Conference, University of Maastricht, The Netherlands, 9-10<sup>th</sup> December 2004. (Key Note Speaker)
- 28 Topic-Contributed Session, Joint Statistical Meetings, 6-10<sup>th</sup> August, Seattle, 2006.
- 29 Statistics, Mathematics and Related Fields Conference, Honolulu, Hawaii, 17-19<sup>th</sup> January, 2007.
- 30 WNAR Topic-Contributed Session, Salt Lake City, Joint Statistical Meetings, July 29<sup>th</sup>-August 2<sup>nd</sup>, 2007.
- 31 Conference in Celebration of Huang, D. Y. Birthday, Fu-Jen University, Taipei, Taiwan 28-30<sup>th</sup> December, 2007.
- 32 First International Symposium on Biopharmaceutical Statistics, Shanghai, China, 29-2<sup>nd</sup> July 2008.
- 33 7<sup>th</sup> World Congress in Probability and Statistics, National University of Singapore, 15-19<sup>th</sup> July, 2008.
- 34 International Chinese Statistical Association Applied Statistics Symposium, San Francisco, 21-24<sup>th</sup> June 2009.
- 35 The 1<sup>st</sup> Institute of Mathematical Statistics Asia Pacific Rim Meeting, Seoul National University, Seoul, Korea, 28<sup>th</sup>-1<sup>st</sup> July, 2009.
- 36 International Conference on Experimental Designs, Guangzhou University, Guangzhou, China-17-19<sup>th</sup> July, 2009. (Plenary Speaker)
- 37 Institute for Mathematical Sciences, National University of Singapore, 26 June 2010.
- 38 Congreso de Jóvenes Investigadores en Estadística: Diseño de Experimentos y Bioestadística, Universidad de Castilla-La Mancha, Toledo, Spain, 24-26 November 2010.
- 39 International Workshop on Design, Guangzhou University, Guangzhou, China, 17-18 December 2010.
- 40 8th International Chinese Statistical Association International Conference, Guangzhou University, Guangzhou, China, 19-22 December 2010.
- 41 2nd International Symposium on Biopharmaceutical Statistics, Berlin, Germany, Feb 28-Mar 3, 2011.
- 42 The Academy Colloquium at the Royal Netherlands Academy of Arts and Sciences, Amsterdam, 26-28 April, 2011.
- 43 The Academy Colloquium at the Royal Netherlands Academy of Arts and Sciences, Amsterdam, 29 April, 2011.
- 44 The 3rd biennial Canadian Discrete and Algorithmic Mathematics Conference, University of Victoria, British Columbia, 31 May-3 June 2011.
- 45 International Workshop on Sequential Methods, Stanford University, 14-16 June, 2011.
- 46 The Isaac Newton Institute of Mathematical Sciences, Cambridge, England, August 31 2011.
- 47 The Isaac Newton Institute of Mathematical Sciences, Cambridge, England, 9 December, 2011.
- 48 4<sup>th</sup> International Conference of the ERCIM on Computing & Statistics, University of London, United Kingdom, London, United Kingdom, 17-19 December 2011.
- 49 Joint Statistical Meetings, San Diego, August 1 2012.
- 50 Design and Analysis of Experiments Conference, University of Georgia, Athens, Atlanta, October 17-21 2012.
- 51 Workshop on Recent Development of Biostatistics & Statistics, Department of Applied Mathematics, Polytechnic University of Hong Kong, Hong Kong, 18-19 December 2012.
- 52 WNAR-IMS Conference, UCLA, Los Angeles, 16-19 June 2013.
- 53 Informs Applied Probability and Statistics, San Jose, Costa Rica, 15-17 July 2013.
- 54 The International Conference on Recent Advances in Experimental Designs, Guangzhou, China, 12-16 December, 2013. (Keynote speaker)
- 55 International Chinese Statistical Association & Korean International Statistical Society Association, Portland, Oregon, 15-18 June 2014.
- 56 Conference in Design and Analysis of Experiments, Taipei, Taiwan, 4-5 July 2014.
- 57 Department of Mathematics and Statistics, University of Calgary, Calgary, Canada, 28 July 2014.
- 58 International Conference in Interdisciplinary, Statistics and Combinatorics (AISC) University of North Carolina at Greensboro, 10-12 October 2014.
- 59 Workshop on Design and Analysis of Experiments in Healthcare at the Isaac Newton Institute for Mathematical Sciences in Cambridge, UK, 6-10 July 2015. (This is a follow-on to the six-month program on "Design and analysis of experiments" held at Isaac Newton Institute in 2011 that I served as member of the team of Scientific Advisors.)
- 60 Joint Statistical Meetings, Seattle Convention Center, 9-13 August 2015.
- 61 9th Conference of the Asian Regional Section of the IASC (IASC-ARS 2015), National University of Singapore, 17-19 December 2015.

9/1/2021

- 62 Invited ENAR Meeting, Austin, Texas, 6-9 March 2016.
- 63 The 4th International Conference on Design of Experiments (ICODOE 2016), Department of Mathematical Sciences, The University of Memphis, Tennessee, 10-13 May 2016.
- 64 The International Chinese Statistical Association, Atlanta, USA, 12-15 June 2016.
- 65 Heart Congress Conference, Beijing University, Beijing, China, 11-14 August, 2016.
- 66 The 22nd International Conference on Computational Statistics (COMPSTAT 2016), Oviedo, Spain, 23-26 August 2016.
- 67 1-day Workshop in Design and Machine Learning, Department of Cheng Kung University, Tainan, Taiwan, 14 December 2016.
- 68 The 10th ICSA international conference, Shanghai Jiao Tong University, Shanghai, China, 19-22 December 2016.
- 69 1<sup>st</sup> International Conference on Econometrics and Statistics (Ecosta 2017), The Hong Kong University of Science and Technology, 15-17<sup>th</sup> June 2017.
- 70 Institute of Mathematical Sciences, Institute of Mathematical Sciences, National University of Singapore, 19 June-14 July 2017.
- 71 Joint Conference of the Central European Network of the International Biometric Society and the International Society of Biopharmaceutical Statistics, ISBS Vienna, August 28-Sep 1 2017.
- 72 Workshop on “Meeting the Statistical Challenges in High Dimensional Data and Complex Networks” at the Institute for Mathematical Sciences at the National University of Singapore, Singapore, February 9-17, 2018.
- 73 Workshop on “Particle Swarm Optimization Techniques and Evolutionary Computation“, Workshop on Particle Swarm Optimization and Evolutionary Algorithms” at the Institute for Mathematical Sciences at the National University of Singapore, Singapore. February 20-21<sup>st</sup>, 2018
- 74 A Workshop on Design at Centre International de Rencontres Mathematiques (CIRM), Marseille, France, 30 April – 4 May 2018.
- 75 COMPSTAT Conference, Lasi, Romania, August 28-Sept 2<sup>nd</sup>, 2018.
- 76 Cook’s Distance and Beyond: a conference celebrating the contributions of R. Dennis Cook to Statistical Science, March 22-23, 2019.
- 77 South Taiwan Statistics Conference, Taichung, Taiwan, June 21-22<sup>nd</sup> 2019.
- 78 Invited Design Session, EcoStat. Conference, Taichung, Taiwan, June 25-27<sup>th</sup> 2019.
- 79 WNAR Invited Session at JSM, Denver, July 31- August 4<sup>th</sup> 2019.
- 80 Invited session, ISI, Kuala Lumpur, Malaysia, August 18-23<sup>rd</sup> 2019.

#### Upcoming

- 81 ICSA Symposium, Houston, May 17-20<sup>th</sup>, 2020. (cancelled due to COVID19)
- 82 WNAR Invited Talk, Alaska, June 14-17<sup>th</sup>, 2020. (cancelled due to COVID19)
- 83 Joint Meeting of Taipei International Statistical Symposium and ISI Regional Statistics Conference, Taipei, Taiwan, Dec 16-19th 2020. (cancelled due to COVID19)
  
- 84 The 34th New England Statistics Symposium Panelist, 2021 DAE online conference, 21<sup>st</sup> October 2021.
- 85 Louis Chen 80<sup>th</sup> Birthday Symposium, National University of Singapore, June 17–21 Jun 202, 2022.
- 86 Discussant at JSM Invited Session “Theory and Algorithms for Adaptive Clinical Trial Design with Multiple Objectives”, Joint Statistical Meetings, Washington DC, August 6-11, 2022.

#### Seminars at Department and Research Institutes

- 1 Department of Biostatistics, UCLA, 20th April, 1990.
- 2 Department of Statistics, University of California, Riverside, 26th February 1991.
- 3 Department of Mathematics, UCLA, 4th March 1991.
- 4 Department of Statistics and Actuarial Science, University of Iowa, Iowa City, 20th June, 1991.
- 5 Department of Mathematics, UCLA, 4th December 1991.
- 6 Department of Biomathematics, UCLA, 3rd June, 1993.
- 7 Mathematisches Institut, Freie Universitaet Berlin, Germany, 23rd December 1994.
- 8 Department of Probability and Statistics, University of California at Santa Barbara, 17th January, 1995.
- 9 Istituto di Statistica Sociale, Universita' degli Studi di Palermo, Italy, 13th June 1995.
- 10 Mathematisches Institut, Freie Universitat, Berlin, Germany, 23rd June, 1994.
- 11 Institut fr Mathematische Stochastik, Technische Universitat Dresden Germany, 27th June 1995.
- 12 Department of Computer Science and Statistics, Technische Universiteit Eindhoven, The Netherlands, 17th September 1996.
- 13 Department of Methodology and Statistics, University of Maastricht, The Netherlands, 19th September 1996.

- 14 Department of Methodology and Statistics, University of Maastricht, The Netherlands, 20th September 1996.
- 15 Department of Mathematics, National University of Singapore, 9th January, 1997.
- 16 Department of Mathematics, National University of Singapore, 14th January, 1997.
- 17 Department of Applied Mathematics, National Sun-Yet-Sen University, Kaohsiung, Taiwan, 16th July, ,1997
- 18 Department of Mathematics, National University of Singapore, July 30th, 1997.
- 19 Department of Statistics, UC-Riverside, California, Jan. 27th, 1998.
- 20 Department of Applied Mathematics and Statistics, SUNY-Stony Brooks, 25th November 1998.
- 21 Department of Epidemiology and Public Health, Yale University, 30th November 1998.
- 22 Pfizer Pharmaceutical Company, Groton, CT., 1st December 1998.
- 23 Department of Statistics, Chinese University of Hong Kong, China, March 30th, 1999.
- 24 Department of Statistics, Chinese University of Hong Kong, China, July 12th, 1999.
- 25 Department of Mathematics and Applied Mathematics, University of Maryland at Baltimore, Sept. 3rd, 1999.
- 26 Department of Methodology and Statistics, University of Maastricht, The Netherlands, 6th July 2000.
- 27 Department of Applied Statistics and Probability, National University of Singapore, 27th August 2001.
- 28 Department of Probability and Statistics, University of California at Santa Barbara, 16th April, 2002.
- 29 Otto von Guericke University Magdeburg - Institute for Mathematical Stochastics, Magdeburg, November 28<sup>th</sup> 2002.
- 30 Department of Applied Mathematics and Statistics, University of Edmonton, Alberta, 3<sup>rd</sup> September, 2006.
- 31 Department Statistics, University of Missouri-Columbia, MO, 20<sup>th</sup> September, 2006.
- 32 Department of Biostatistics, Washington University, St. Louis, MO, 22<sup>nd</sup> September, 2006.
- 33 Department of Mathematics, Hong Kong Baptist University, Hong Kong, 18<sup>th</sup> December, 2006.
- 34 Department of Applied Probability and Statistics, National University of Singapore, 3<sup>rd</sup> January 2007.
- 35 Department of Statistics, George Mason University, Fairfax, Virginia, 22<sup>nd</sup> February, 2007.
- 36 Department of Biostatistics, Yale University, November 27<sup>th</sup> 2007.
- 37 Department of Mathematics, Probability and Statistics, University of Southern California, Los Angeles, 14<sup>th</sup> September 2008.
- 38 Pacific Institute of Mathematical Sciences, University of Victoria, Victoria, British Columbia, Canada, 19<sup>th</sup> September 2008.
- 39 Department of Biostatistics and Epidemiology, University of California at San Francisco, San Francisco, 18<sup>th</sup> Feb 2009.
- 40 Department of Statistics and Faculty of Health Sciences, Simon Fraser University, Vancouver, 2<sup>nd</sup> March 2009.
- 41 Arthritis Research Centre, Vancouver, 25<sup>th</sup> May 2009.
- 42 University of California at Riverside, Department of Statistics, 29th September, 2009.
- 43 Signature Seminar Series Invited Speaker, Duke University-National University of Singapore Graduate Medical School, Singapore, November 3<sup>rd</sup>, 2009.
- 44 Institute of Statistics, National Chia Tung University, Hsinchu, Taiwan, 22<sup>nd</sup> December 2009.
- 45 Department of Mathematics, Hong Kong Baptist University, Hong Kong, 23 February 2010.
- 46 Institute of Statistics, National University of Kaohsiung, Kaohsiung, Taiwan, 3 March 2010.
- 47 Department of Applied Mathematics, National Sun Yat Sen University, Kaohsiung, Taiwan, 4 March 2010.
- 48 Department of Mathematical Sciences, University of Technology, Sydney, Australia, 13 September, 2010.
- 49 Department of Mathematics, University of Southern California, 4 February, 2011.
- 50 Department of Mathematics and Statistics, Arizona State University, 18 February, 2011.
- 51 Department of Mathematics and Statistics, National Taiwan University, Taipei, Taiwan, 20 July, 2011.
- 52 Division of Mathematical Sciences, Nanyang Technological University, Singapore, 17 October, 2011.
- 53 Department of Statistics, Guangzhou University, 18 November, 2011.
- 54 Department of Statistics, University of Hong Kong, Hong Kong, 24 November, 2011.
- 55 Department of Statistics, Oxford University, England, 1 December, 2011.
- 56 School of Mathematics, The University of Manchester, Manchester, England, 14 December, 2011.
- 57 Department of Statistics, UCLA, 31 January 2012.
- 58 Department of Statistics, Stockholm University, Stockholm, Sweden, 18 March 2012.
- 59 Department of Statistics, Stockholm University, Stockholm, Sweden, 10 March 2012.
- 60 Academia Sinica, Taipei, Taiwan, 9 July 2012.
- 61 Defence Science Organization, National Laboratories, Singapore, 18 July 18 2012.
- 62 Department of Mathematics and Statistics, Loyola University, Chicago (Undergraduate Colloquium in the Mathematical Sciences), September 10 2012.
- 63 School of Statistics, University of Minnesota, Minneapolis, MN, 13 September 13 2012
- 64 Amgen, 1 November 2012
- 65 Department of Biological Sciences, University of Southern California, 6 December 2012.
- 66 Department of Statistics, National Cheng Kung University, Tainan, Taiwan, 3 October 2013.
- 67 Department of Mathematics, Tamkang University, Taipei, Taiwan, 12 November 2013.



9/1/2021

- 68 Department of Applied Mathematics, Sun Yet-Sen University, Kaoshiung, Taiwan. 14 November 2013.
- 69 Department of Statistics, National Cheng Kung University, Tainan, Taiwan, 21 November 2013.
- 70 Department of Statistics, UC Irvine, 6 February 2014.
- 71 Department of Statistics, Medeniyet University, Istanbul, Turkey, March 31<sup>st</sup> 2014.
- 72 Bay Area San Francisco ASA Chapter, 16 April 2014.
- 73 Department of Statistics and the Division of Biostatistics (Joint Seminar), UC Davis, 22 April 2014.
- 74 Stanford Biostatistics Workshop, Stanford University, 15 May 2014.
- 75 Canadian Statistical Society, University of Toronto, Toronto, 25-28 May, 2014.
- 76 The Toronto Applied Biostatistician Association, Princess Margaret Hospital, Toronto, Canada, 28 May, 2014.
- 77 Novartis, Shanghai, China, 1 July 2014 (2 hour lecture-tutorial).
- 78 Department of Statistics, University of Georgia, 13 November 2014.
- 79 Department of Epidemiology and Biostatistics at the University of Texas Health Science Center at San Antonio, San Antonio, Texas, 11 May, 2015.
- 80 School of Mathematics and Statistics, The University of Glasgow, Scotland, United Kingdom, 3 July 2015.
- 81 Department of Statistics, University of Southampton, Southampton, 13 July 2015.
- 82 Department of Applied Mathematics and School of Industrial Engineering, Institute of Mathematics and Universidad de Castilla-La Mancha, Ciudad Real, Spain, 9 Sept 2015.
- 83 Department of Electrical Engineering, National University of Singapore, Singapore, 21 December 2015.
- 84 Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing 100190, China, 16 August 2016.
- 85 Engineering Systems and Design Pillar at Singapore University of Technology and Design, 7 September, 2016.
- 86 Guest Lecture for 4<sup>th</sup> year Electrical Engineering students at the Department of Electrical Engineering, National University of Singapore, 12<sup>th</sup> September, 2016.
- 87 Department of Applied Mathematics, National Sun Yet-Sen University, Kaoshiung, Taiwan, 8 December 2016.
- 88 Department of Statistics, National Taichung University, Taichung, Taiwan, 12 December 2016.
- 89 Department of Mathematical and Statistical Sciences, University of Alberta, Edmonton, 6<sup>th</sup> February 2017.
- 90 Department of Chemical Engineering, University of Coimbra, Coimbra, Portugal, 26<sup>th</sup> April 2017.
- 91 Department of Statistics and Operational Research, University of Lisbon, Portugal, 28<sup>th</sup> April 2017.
- 92 Department of Biostatistics, Center for Biostatistics Research (CBAR), T. H. Chan School of Public Health, Harvard University, Boston, 15<sup>th</sup> May 2017.
- 93 Department of Mathematics and Statistics, University of Victoria, 25<sup>th</sup> May 2017.
- 94 Department of Computer Science, Hong Kong Baptist University, Hong Kong 12<sup>th</sup> June, 2017.
- 95 Department of Statistics, Chinese University of Hong Kong, Hong Kong, 14<sup>th</sup> June, 2017.
- 96 Duke-NUS Graduate School", National University of Singapore, Singapore, Feb 23th 2018.
- 97 Department of Biostatistics, Vanderbilt University, Nashville, Tennessee, March 14, 2018.
- 98 Department of Biomathematics, UCLA, June 7<sup>th</sup> 2018.
- 99 Biostatistics Division, Johnson & Johnson, Irvine, California, 29 November 2018.
- 100 College of Mathematics and Sciences, Shanghai Normal University, Shanghai, China, 20<sup>th</sup> February 2019.
- 101 Academia Sinica, Taipei, Taiwan, March 4th, 2019.
- 102 Department of Statistics, National Cheng Kung University, Tainan, Taiwan, March 14<sup>th</sup>, 2019.
- 103 Department Computer Science, City University of Hong Kong, June 24<sup>th</sup> 2019.
- 104 Department of Statistics, University of Sydney, Sydney, Australia, July 12<sup>th</sup> 2019.
- 105 Department of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 19<sup>th</sup> 2019.
- 106 Department of Biostatistics, University of Florida, January 10<sup>th</sup> 2020.

## II TEACHING ACTIVITIES

IIA. Courses Taught at UCLA		name	no. of students
F90	Biostatistics 100A	Introduction to Biostatistics	30
W91	"	"	21
W92	"	"	22
Su93	"	"	29
F90	Biostatistics 245	Advanced Seminar in Biostatistics	11
F98	"	"	18
S11	"	"	35
S12	"	"	38
S14	"	"	39
F17	"	"	34
F18	"	"	36
F19	"	"	36
F20	"	"	40

9/1/2021

F91	Biostatistics 200A	Biostatistics	33
F92	"	"	33
F93	"	"	19
F94	"	"	17
W94	Biostatistics 200B	Biostatistics	13
S05	Biostatistics 200C	Biostatistics	14
S06	"	"	17
S07	"	"	20
S08	"	"	19
S09	"	"	23
S10	"	"	19
S11	"	"	15
S12	"	"	22
S13	"	"	13
W14	"	"	17
W15	"	"	12
W16	"	"	11
S17	"	"	31
W19	"	"	29
S92	Biostatistics 100C	Introduction to Biostatistics	18
W09	Biostatistics 402A	Biostatistical Consulting	17
W92	Biostatistics 402B	Biostatistical Consulting	12
S93	"	"	13
S97	"	"	2
F97	"	"	3
F05	"	"	5
W06	"	"	5
F06	"	"	6
F07	"	"	8
W93	Biostatistics 110B	Basic Biostatistics	12
W94	"	"	9
S93	Biostatistics 110C	Basic Biostatistics	12
W93	Biostatistics 596	Independent Studies(David Speights)	1
S93	"	" (Randy Smith)	1
W94	"	" (Sharon Lu, Julia Lee)	2
S05	"	" (Paul Marianam)	1
F08	"	" (Paul Marianam)	1
W08	"	" (Grace Park)	1
F08	"	" (Min Jin)	1
W09	"	" (Min Jin)	1
W11	"	" (Xin Ye, Taixu Chen, Xiaoxian Dia, Jiaheng Qiu)	3
F11	"	" (Jiaheng Qiu)	4
W12	"	" (Jiaheng Qiu)	4
S12	"	" (Jie Huang, Nidhi Shetty, Jiaheng Qiu)	2
S13	"	" (YuanYuan, Ali-Andrew)	2
S05	Biostatistics 597	" (Grace Park)	1
F11	"	" (Jiaheng Qiu)	4
S95	Biostatistics 285	Advanced Special Topic Class	7
S97	"	"	2
F95	Biostatistics 250A	Linear Models	10
F96	"	"	9
F98	"	"	8
F99	"	"	11
F00	"	"	17
F01	"	"	12
F02	"	"	9
F03	"	"	8
F04	"	"	9
F05	"	"	5
F06	"	"	7

9/1/2021			
F07	"	"	8
F08	"	"	6
F14	"	"	5
F15	"	"	8
F16	"	"	10
F17	"	"	14
F18	"	"	8
F19	"	"	11
F20	"	"	8
F21	"	"	10
W96	Biostatistics 250B	Linear Models II	8
W99	"	"	6
W00	"	"	8
W11	"	"	7
W12	"	"	4
W13	"	"	5
W14	"	"	6
W20	"	"	16
W21	"	"	7
S02	Biostatistics 251	Multivariate Statistics	7
S03	"	"	7
S98	Biostatistics 240	Master's seminar	9
S03	"	"	14
S04	"	"	16
S06	"	"	14
S09	"	"	22
F00	Biostatistics 279	Optimal Design of Experiments	7
W05	"	"	5
W08	"	"	8
S15	"	"	4
S18	"	"	5
S19	"	"	3
S21	"	"	4
F10	Biostatistics 238	Methodology for Clinical Trials	5
S13	"	"	4
S16	"	"	7
W17	"	"	11

Sabbaticals  
Spring 2020

<b>IIB. Master's Paper Advisor</b>			<b>Year</b>
Joy Chih-Yi King	MS	Department of Biostatistics	1991
Amy In-Lu Liu	MS	"	1991
Frances Wu	MS	"	1992
Ming Yi Hu	MS	"	1993
David Speights	MS	"	1993
Yongshan Lin	MS	"	1994
Mike Lau	MS	"	1995
Zemeke Ying	MS	"	1995
Chih-Chien Yang	MS	"	1995
Ya-Yun Chang	MS	"	1995
Brain Ramos	MS	"	1998
Wuan Szu Wang	MS	"	1998
Nancy Chang	MS	"	1999
Hector Lemus	MS	"	2000
JeongYoong Lim	MS	"	2005
Haiying Kong	MS	"	2007
Daniel Nguyen	MS	"	2008
Brain Sharkey	MS	"	2008

9/1/2021

Trinia Patel	MS	"	2008
Paul Maranian	MS	"	2009
Min Jin	MS	"	2009
Roberto Crackel	MS	"	2009
Xiaoxian Dai	MS	"	2011
Xin Ye	MS	"	2011
Issac Chen TaiXu	MS	"	2011
Netty Shedi	MS	"	2012
Jie Huang	MS	"	2012
Andrew Abi-Chaker	MS	"	2013 (incomplete)
Junhyung Park	MS	"	2014
Timothy Lin	MS	"	2015
Zizhao Zhang	MS	"	2016
Yiyang Zhang	MS	"	2017
Tianjiang Yang	MS	"	2019
Elvis Han	MS	"	2019
Howon Ryu	MS	"	2019
Peter Long	MS	"	2019 37
Haowen Xu	MS	"	2019

**IIC. Doctoral Committee Membership**

			<b>Year</b>
Parichehr Hemyari	DrPH	Department of Biostatistics	1991
Patricia English	DrPH	"	1991
Stellar Grosser	PhD	"	1993
Guanghan Liu	PhD	Department of Mathematics	1993
Man Lai Tang	PhD	Department of Biostatistics	1995
Reis Isildinha	DrPH	"	1995
Shih Wei Tsai	PhD	Department of Environment Heath Sc	1998
Katie Kerr	PhD	Department of Statistics	1999
Suman Bhattacharya	PhD	Department of Biostatistics	2001
ZhiShen Ye	PhD	"	2001
Xiaowei Yang	PhD	"	2002
Jianming Wang	PhD	"	2002
YingYing Ma	PhD	"	2003
Peng Cheng Sung	PhD	Department of Environment Heath Sc	2006
Bob Phalen	PhD	"	2006
Wen Hai Xu	PhD	"	2007
Juan Mei Liu	PhD	Department of Statistics	2007
Frederick Phoa	PhD	Department of Statistics	2009
Adam Siade	PhD	Department of Civil Engineering	2012
Qing Yang	PhD	Department of Biostatistics	2013
Xiang Lu	PhD	Department of Biostatistics	2015
Ashay Burungale	PhD	Department of Mathematics	2015
Tim Ushijima	PhD	Department of Civil Engineering	2018
Wang Lin	PhD	Department of Statistics	2019
Ye Tian	PhD	Department of Statistics	2018 (advanced)
Wenxi Yu	PhD	Department of Biostatistics	2019 (advanced)
Xi Diong	PhD	Department of Biostatistics	2019 (advanced)
Yuhao Yin	PhD	Department of Statistics	2019 (advanced) 28

**IID. Chair of Doctoral Dissertation Committee**

			<b>Year</b>
Joy Chih-Yi King	PhD	Department of Biostatistics	1996
Yu Chuan Huang	DrPH	"	1996
Wei Zhu	PhD	"	1996
Dale Song	PhD	"	1997
Kuan-Liang Chen	PhD	"	2002

9/1/2021

Grace Park	DrPH	"	2007	
Jia-heng Qiu	PhD	"	2014	
Priscilla Yen	PhD	"	2019	
Zizhao Zhang	PhD	"	2020	
Mitchell Schepps	PhD	"	2021	(10)

**IIE. Co-chair of Doctoral Dissertation Committee**

			<b>Year</b>	
Chen Hsiu-Wen	PhD	Department of Statistics	2011	
(co-chair: Xu, Dept. of Statistics, UCLA)				
Jessica Jaynes	PhD	Department of Statistics	2013	
(co-chair: Xu, Dept. of Statistics, UCLA)				
Sheng Wu	PhD	Department of Biostatistics	2015	
(co-chair: Crespi, Dept. of Biostatistics, UCLA)				
Yu Shi	PhD	Department of Biostatistics	2019	
(co-chair: Kim, Dept. of Biostatistics, UCLA)				
Zachary Stokes	PhD	Department of Statistics	2019 (advanced)	
(6)				
(co-chair: Xu, Dept. of Statistics, UCLA)				
Elvis Cui	PhD	Department of Biostatistics	2021	
(co-chair: Li, Dept. of Statistics, UCLA)				

**IIF. External Examiner of Master/Doctoral Theses**

- 1 Doctoral Thesis of Mirjam Morebeek, a student at the Department of Methodology and Statistics, University of Maastricht, The Netherlands, 2000.
- 2 Habilitation Thesis of Lorens Imhof, a faculty member at Fakultät fuer Mathematik, Aachen University, Germany, 2002.
- 3 Master's Thesis of a student at the Department of Mathematics and Statistics, Memorial University of Newfoundland, Canada, 2004.
- 4 Doctoral Thesis of a student at the Department of Mathematics & Statistics, University of Alberta, Edmonton, 2006.
- 5 Doctoral Thesis of Xiang Feng Wu, student at the Department of Applied Mathematics and Statistics, State University of New York, SUNY, Stony Brook, 2007.
- 6 Doctoral Thesis of Yan Bo Pei a student at the Department of Mathematics, Baptist University of Hong Kong, Hong Kong, China, 2009.
- 7 Doctoral Thesis of a student at the Department of Statistics and Applied Probability, National University of Singapore, Singapore, 2013.
- 8 Master's Thesis of Nambiar, Padmanand Madhavan, a student at the Department of Statistics, University of Georgia, Athens, Georgia, 2015.
- 9 Doctoral Thesis of Elvira Delgado Márquez, a student at the Department of Industrial Engineering, Universidad de Castilla-La Mancha, Ciudad Real, Spain, 2015.
- 10 Doctoral Thesis of Muthini, R. K., a student at the Department of Psychology, University of Kansas, 2014-present.
- 11 Doctoral Thesis of Yin Li, a student at the Department of Mathematical and Statistical Sciences, University of Alberta at Edmonton, 2017.
- 12 Doctoral Thesis of Selvakkadunko Selvaratnam, a student at the Department of Mathematics and Statistics, Memorial University of Newfoundland, 2017.
- 13 Doctoral Thesis of Ping Yang Chen, a student at the Department of Statistics, National Cheng Kung University, 2017.
- 14 Doctoral Thesis of Qiang Li, a student at the Department of Statistics, University of North Dakota, advanced to candidacy, 2018

**IIG. Participant in the UCLA Cross-disciplinary Scholars in Science and Technology (CSST)/ Cross-Disciplinary Scholars (CDS) program to mentor a top undergraduate from China**

Guanghao Qi	3 <sup>rd</sup> Year	Department of Mathematics	Summer 2014
	Undergraduate	Fudan University, Shanghai	

Present affiliation: Doctoral student, Department of Biostatistics, Johns Hopkins University.

**III SERVICE**

**IIIA Reviewer of Grant/Fellowship Applications**

- 1 Grant Reviewer for National Sciences and Engineering Research Council of Canada, 1998, 2001, 2003, 2007(2), 2011, 2014, 2015.
- 2 Member, SNEM 5 Special Emphasis Panel Grant Review of the Centre for Scientific Review, National Institutes of Health, D.C., 1999-2000. (SNEM=Section on Nursing, Epidemiology and (Statistical) Methods)
- 3 Grant Reviewer, National Science Foundation, 2002, 2003.
- 4 Grant Reviewer, National Research Service Award, Office of Peer Review, HRSA, Bureau of Health Professions, U.S. Department of Health & Human Services HRSA, Silver Spring, MD, August 5-8, 2002.
- 5 Grant Reviewer, National Security Agency, January 2003, 2014(declined)
- 6 Member, CDC Research Center (PRC) Minority Fellowship Review Committee, Association of School of Public Health, 2006, 2007, 2008, 2009, 2010, 2011, 2012.
- 7 Member, CORT Applications Review, National Institute of Arthritis and Musculoskeletal Disease (NIAMS), D. C., March 2006.
- 8 Grant Reviewer, Arthritis Foundation, September 30th 2006.
- 9 Grant Reviewer, Biology and Arthritis Section of NIAMS, Nov. 17th 2006.
- 10 Grant Reviewer, Musculoskeletal, Oral, and Skin Sciences (MOSS) Integrated Review Group of NIH, April 25<sup>th</sup> 2007.
- 11 Grant Reviewer, Austrian Science Foundation, July, 2007.
- 12 Grant Reviewer, Competitive Earmarked Research Grant (CERG), The Government of Hong Kong, December 2007 (1), June 2008 (2).
- 13 Grant Reviewer, The German Federal Ministry for Research and Education, July 2008, July 2009, January 2010.
- 14 Grant Reviewer, ASPH/CDC Alan Rosenfeld Global Health Fellowship Program 2009.
- 15 Member of Panel of Reviewers for Tripod Grant Applications, National Science Foundation, 6-7<sup>th</sup> June 2019
- 16 Grant Reviewer, Medical Research Council, London, January 2019, January, 2020.
- 17 Member of Panel of Reviewers for Statistics Grant Applications, National Science Foundation, 15-18<sup>th</sup> March 2020

### **IIIB Reviewer of Personnel Action for Faculty (outside UCLA)**

- 1 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor with tenure at University of Edmonton, Alberta, 1998.
- 2 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor with tenure at State University of New York, 1998.
- 3 Member, Review Committee for Promotion of an Associate Professor to Full Professor with tenure at State University of New York, 1998.
- 4 Member, Review Committee for Promotion of an Adjunct Assistant Professor to Adjunct Professor at Harvard University without tenure, 2005.
- 5 Member, Review Committee for Promotion of an Adjunct Associate Professor to Adjunct Professor at UC Irvine, 2005.
- 6 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor without tenure at the Oregon Health and Science University, 2006.
- 7 Member, Review Committee for Promotion of Professor Step V to Professor Step VI at UC Riverside, 2006.
- 8 Member, Review Committee for Promotion of an Associate Professor to Professor, Loyola University, Chicago, 2009.
- 9 Member, Review Committee for Promotion of a Professor Step V to Professor Step VI at UC Irvine, 2009.
- 10 Member, Review Committee for Promotion of an Associate Professor, University of Utah, 2010.
- 11 Member, Review Committee for Promotion of an Associate Professor, Cleveland Clinic, 2011.
- 12 Member, Review Committee for Promotion of an Associate Professor to Professor, University of Utah, Utah, 2013.
- 13 Member, Review Committee for Promotion of an Associate Professor to Full Professor with Tenure, Department of Actuarial Science and Statistics, University of Hong Kong, 2014.
- 14 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor, Department of Epidemiology and Biostatistics, University of Texas Health Science Center at San Antonio, Texas, 2014.
- 15 Member, Review Committee for Promotion of an Associate Professor to Full Professor with Tenure, Department of Actuarial Science and Statistics, University of Hong Kong, 2015.
- 16 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor with Tenure, Duke-National University of Singapore, Singapore, 2016.
- 17 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor with Tenure, Department of Mathematics, University of Minnesota, Duluth, Minnesota, 2017.
- 18 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor with Tenure, Vanderbilt University, Nashville, Tennessee, 2017.
- 19 Member, Review Committee for Promotion of an Assistant Professor to Associate Professor with Tenure,

- University of Texas Health System, Houston, Atlanta, 2017.
- 20 Member, Review Committee for Promotion of an Associate Professor to Professor with Tenure, Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 2018.
  - 21 Member, Review Committee for Promotion of a Lecturer to Senior Lecturer, Cardiff School of Mathematical Sciences, Cardiff University, England, 2018.
  - 22 Member, Review Committee for Associate Professor to Associate Professor (with tenure) at the Hasbam Business School of University of Tennessee, Knoxville, Tennessee.

### **IIIC Chair/Organizer of Scientific Sessions at Conferences/Meetings**

- 1 Co-organizer, Workshop Organization Committee in Applied Statistics, American Statistical Association, Southern California Chapter, 1990-1994
- 2 Chair and Organizer of an invited design session entitled "Design" for the joint 233rd IMS/WNAR meeting at UCLA, 27-29th June, 1994.
- 3 Chair and Organizer of a design session entitled "New Algorithms for Generating Optimal Designs" for the International Association for Statistical Computing Second World Conference, Pasadena, California, Feb. 19-22, 1997.
- 4 Co-chair and Co-organizer of a joint AMS-IMS-SIAM-NSA sponsored Summer Research Conference entitled "New Developments and Applications in Experimental Design" at The University of Washington at Seattle, June 29-July 3rd 1997.
- 5 Chair and Organizer of a design session, "Experimental Design Theory" at the 3rd Symposium on Simulation at St. Petersburg, Russia, June 29-July 3rd, 1998.
- 6 Chair and Organizer of a Special Contributed Session, "Designs for Biomedical Studies and Clinical Trials" for the WNAR Biometric session at the Joint Statistical Meetings, Anaheim, California, August 10-14th 1997.
- 7 Chair and Organizer of Invited Session "Recent Advances in Sequential Designs for Clinical Trials". Chinese Applied Statistics Conference. The University of Hong Kong, Hong Kong, Summer, 2001.
- 8 Organizer of an Invited Session "Design". Annual Statistical Society of Canada Meeting, Halifax, Nova Scotia, June 6<sup>th</sup>-8<sup>th</sup> 2003.
- 9 Chair and Organizer, "Better Writing Skills for Success". International Chinese Statistical Association Conference, La Jolla, CA, 22-24<sup>th</sup> 2004.
- 10 Organizer of a Topic-Contributed Session entitled "Statistical Methods of Assessing Disease Improvement in a Chronic Disease", Joint Statistical Meetings, Toronto, Canada, 8-12<sup>th</sup> August, 2004.
- 11 Chair and Organizer of a Topic-Contributed Session, "Optimal Experimental Design", Joint Statistical Meetings, Minneapolis, 7-11<sup>th</sup> August, 2005.
- 12 Chair of an Invited Session, "Recent Advances in Group Randomized Trials", August, Joint Statistical Meetings, Salt Lake City, July 29<sup>th</sup>-August 2<sup>nd</sup>, 2007.
- 13 Organizer of a Topic-Contributed Session "Design: Optimality Ideas and Applications", Joint Statistical Meetings, Salt Lake City, July 29<sup>th</sup>-August 2<sup>nd</sup>, 2007.
- 14 Organizer of an Invited Session, "Optimal Experimental Designs with Applications to the Biomedical Sciences", International Chinese Statistical Association Symposium, San Francisco, June 20-24th 2009.
- 15 Chair and Organizer of an Invited Session, "Optimal Designs for the Pharmaceutical Industry", Joint Statistical Meetings, Vancouver July 31<sup>st</sup>-5<sup>th</sup> August 2010.
- 16 Organizer of a Topic-Contributed Session "Modern Methods of Analyzing Clustered Data from the Health Sciences", Joint Statistical Meetings, Vancouver 31<sup>st</sup>-5<sup>th</sup> August 2010.
- 17 Organizer of an Invited Session, "Recent Advances in Experimental Designs". The 8<sup>th</sup> International Chinese Statistician Association Conference, Guangzhou University, Guangzhou, China, 19-22<sup>nd</sup> December 2010.
- 18 Chair and Organizer, IMS invited session, "Recent Advances in Adaptive Designs for Clinical Trial Applications" at the WNAR/IMS meeting, San Luis Obispo, California, 19-22<sup>nd</sup> June, 2011.
- 19 Co-chair of Scientific Program and Co-organizer, Spring Research Conference, 20<sup>th</sup>-22<sup>nd</sup>, June UCLA 2013.
- 20 Co-organizer and Member Scientific Committee, Recent Advances in Design of Experiments, Guangzhou University, 4<sup>th</sup>-6<sup>th</sup> December 2013.
- 21 Organizer and Chair of an Invited Session, "Applications of Memetic and Metaheuristic Algorithms for Solving Biomedical Problems", IASC-ARS Conference, National University of Singapore, Singapore, 17-19<sup>th</sup> December 2015.
- 22 Chair, Invited Session, "Design", International Chinese Statistical Association Conference, Atlanta, Georgia, 12-15<sup>th</sup> June 2016.
- 23 Chair and Organizer, Invited Session, "Nature-inspired Algorithms for Statistical Applications", The 2<sup>nd</sup> Conference on Experimental Design and Analysis, Taipei, Taiwan, 15-17 December 2016.
- 24 Co-organizer and co-program chair of a 1 month workshop on a Drug Discovery Workshop on Design and Analysis of Personalized Medicine Trials at the Institute of Mathematical Sciences at the National University

9/1/2021

- of Singapore, Singapore, June 17-July 15, 2017
- 25 Co-organizer and co-program chair of a 1 week design workshop at Banff International Research Station in Alberta, August 2-9, 2017
- 26 Co-organizer and co-program chair of a 3-day Design and Analysis of Experiments Conference at UCLA, September 12-15, 2017.
- 27 Co-organizer and co-Chair of a 2-day workshop on "Particle Swarm Optimization and Evolutionary Computations" at the Institute for Mathematical Sciences at the National University of Singapore, Singapore, February 21-23, 2018.
- 28 Organizer and Chair of an Invited Session, "Recent Advances in Design for Epidemiology and Biostatistics", ISI Conference, Kuala Lumpur, Malaysia, 18-23<sup>rd</sup> August 2019.

### **IIID Member of Professional Organization**

- 1 Member of Journal of the American Statistical Association, 1990-present
- 2 Member of the Institute of Mathematical Statistics, 1990-2002, 2007-2014
- 3 Life Member of International Chinese Statistical Association, 1997-present
- 4 Member, WNAR 2003-present
- 5 Member, International Statistical Institute, 2007-2010
- 6 Member, Society of Clinical Trials, 2008-2010
- 7 Member, Canadian Statistical Society, 2013-2015

### **IIIE Campus - Wide, UCLA**

- 1 Member, Special Review Student Fellowship Committee. Spring, 1995
- 2 Member, Ad-hoc Committee Review for Promotion. Spring, 1997, Spring, 2002
- 3 Member, Faculty Career Development Award Committee. Spring, 1998, Spring 2000
- 4 Member, Undergraduate Fulbright Fellowship Award Committee. Spring, 2003, 2020
- 5 Member, UCLA Senate Committee on Diversity and Equal Opportunity, 2010-2013 [DIV]
- 6 Chair, UCLA Senate Committee on Diversity and Equal Opportunity, 2013-2014 [DIV]
- 7 Member, UCLA Council on Diversity and Inclusion, 2013-2014 [DIV]
- 8 Member, UCLA Climate Survey Task Force Response Team (for faculty only), 2013-2014 [DIV]
- 9 Member, Council of Faculty Chairs, UCLA, 2014-2016
- 10 Member, Faculty Review Committee for the Cota-Robles Fellowship and the Graduate Opportunity Fellowship Program (GOF), Graduate Division 2020-2121 [DIV]
- 11 Member, Dissertation Year Fellowship Review Committee, Graduate Division, 2020-2021

### **IIIF School of Public Health, UCLA**

- 1 Member, Community and Alumni Relations Committee, 1990-1991
- 2 Member, School-wide Comprehensive Examination Committee, 1991-1992
- 3 Member, Student Affairs Committee, 1992-1996
- 4 Acting Director, Health Career Opportunities Program: Summer Prologue Program 1994 [DIV]
- 5 Member, Advisory Task Force for HCOP, Fall 1994-1995 [DIV]
- 6 Member, Compensation Plan for School of Public Health, 1999-2005
- 7 Member, Extra-Curriculum Policy Committee, 1996-1999, 2008-present
- 8 Chair, Faculty Executive Committee, 2014-2016
- 9 Member, School Diversity Committee, 2015-2016
- 10 Member, Search Committee for Environment Health Science Department, 2019
- 11 Member, FSPH Sustainability Committee, 202-present.

### **IIIH. Department of Biostatistics, UCLA:**

- 1 Chair, 100A Waiver Examination, 1991.
- 2 Chair, Admissions and Recruiting Committee, 1992-1994, 1999-2002
- 3 Chair, Master's Spring Comprehensive Examination, 1993, 1998
- 4 Member, Admissions and Recruiting Committee, 1995-1998, 2008-2010
- 5 Co-chair, Master's Spring Comprehensive Examination, 1995, 1997
- 6 Chair, Master's Fall Comprehensive Examination 1995
- 7 Chair, DrPh Comprehensions and Screening Spring Examination, 1996
- 8 Chair, Fellowship Committee, 1999-2002
- 9 Member, Faculty Executive Council, 1996-2002, 2011-2014, 2016-2018
- 10 Chair, Master's Re-Examination, 2002, 2006
- 11 Chair, MS, MPH and DrPh Comprehensive Examinations, 2006
- 12 Department Representative to Legislative Assembly, 2006-2008



9/1/2021

- 13 Member, Department Curriculum Review Committee, 2006-2008, 2019-present
- 14 Member, Department Computing Committee, 2008-2009.
- 15 Member, Department IT/Web Committee, 2010-2011.
- 16 Member, Department Expanded Doctoral Exam Committee, 2019-present
- 17 Chair, Ad-hoc Committee for a Faculty Promotion, 2021
- 18 Member, Financial Strategic Committee, 2019-present