CURRICULUM VITAE

Boxin Tang

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Education

- Ph.D. in Statistics, University of Waterloo, 1992
- M.S. in Statistics, Peking University, 1988
- B.S. in Mathematics, Peking University, 1985

Employment

- Professor, Department of Statistics and Actuarial Science, Simon Fraser University, September 2006 - Present
- Professor and Associate Chair, Department of Statistics and Actuarial Science, Simon Fraser University, September 2019 - August 2021
- Associate Professor, Department of Statistics and Actuarial Science, Simon Fraser University, September 2003 - August 2006
- Associate Professor, Department of Mathematical Sciences, University of Memphis, September 2001 - August 2003
- Assistant Professor, Department of Mathematical Sciences, University of Memphis, September 1997 - August 2001

- Methodologist, Business Survey Methods Division, Statistics Canada, July 1995 - August 1997
- Assistant Professor, Department of Statistical and Actuarial Science, University of Western Ontario, July 1994 - June 1995
- NSERC Postdoctoral Fellow, Department of Statistics and Department of Industrial Engineering, University of Michigan, September 1993 - June 1994
- NSERC Postdoctoral Fellow, Department of Statistics and Department of Biostatistics, University of Toronto, September 1992 - August 1993

Honors and Awards

- ASA Fellow, elected in 2018
- IMS Fellow, elected in 2009
- Early Career Research Award, University of Memphis, 2000
- NSERC Postdoctoral Fellowship, 1992 - 1994
- Ontario Graduate Scholarship, 1991 - 1992

Research Grants

- NSERC Discovery Grant, $258,000, 2020 - 2026 ($43,000 per year)
- NSERC Discovery Grant, $125,000, 2015 - 2020 ($25,000 per year)
- NSERC Discovery Accelerator Supplements (DAS) Grant, $120,000, 2009 - 2012 ($40,000 per year)
- NSERC Discovery Grant, $170,000, 2009 - 2014 ($34,000 per year)
- NSERC Discovery Grant, $125,000, 2004 - 2009 ($25,000 per year)
- SFU New Faculty Start-Up Fund, $30,000, 2004 - 2005
- SFU President's Research Grant, $10,000, 2004 - 2006
- PI of NSF Research Grant, US $111,823, 2002 - 2005
- PI of NSF Research Grant, US $97,417, 1999 - 2002
- NSERC Individual Research Grant, $48,000, 1995 - 1999 ($12,000 per year)

Editorial and Related Service

- Associate Editor for *Journal of Royal Statistical Society-Series B*, 2022 - 2025
- Associate Editor for *Electronic Journal of Statistics*, 2022 - 2024
- Associate Editor for *Statistica Sinica*, 2017 - present
- Associate Editor for *Journal of Statistical Theory and Practice*, 2006 - present
- Associate Editor for *Annals of Statistics*, 2007 - 2018
- Associate Editor for *Bernoulli*, 2016 - 2018
- Associate Editor for *Statistica Sinica*, 2002 - 2011
- Panelist for NSF Statistics Program, 2005 - 2006
- Reviewed grants for NSF, NSA, and NSERC.
- Refereed papers for numerous journals including *Annals of Statistics; Biometrika; Journal of American Statistical Association; Technometrics; Journal of Quality Technology; Statistical Science; Statistica Sinica; Journal of Statistical Planning and Inference; Biometrics; Canadian Journal of Statistics; International Statistical Reviews; Statistics and Probability Letters; Statistics; Biometrical Journal; Metrika; Communications in Statistics; IIE Transactions on Quality and Reliability Engineering; JRSS-B;*

Research Publications

Book

1. Cheng, C.S. and Tang, B. (2025). *Theory of Nonregular Factorial Designs*. Chapman & Hall/CRC.

Published in Refereed Journals

1. Chen, G. and Tang, B. (2025). Minimum aberration factorial designs under a mixed parametrization. *Statistica Sinica*, to appear in Vol. 35, No. 4, October 2025.
2. Chen, G. and Tang, B. (2024). Selecting strong orthogonal arrays by linear allowable level permutations. *Electronic Journal of Statistics*, **18**, 3573-3589.
3. Sun, C.Y. and Tang, B. (2023). Uniform projection designs and strong orthogonal arrays. *Journal of the American Statistical Association*, **118**, 417-423
4. Chen, G., Shi, C. and Tang, B. (2023). Nonregular designs from Paley's Hadamard matrices: generalized resolution, projectivity and hidden projection property. *Electronic Journal of Statistics*, **17**, 2120-2138.

5. Shi, C. and Tang, B. (2023). On construction of nonregular two-level factorial designs with maximum generalized resolutions. *Statistica Sinica*, **33**, 593-607.
6. Chen, G. and Tang, B. (2022). A study of orthogonal array-based designs under a broad class of space-filling criteria. *Annals of Statistics*, **50**, 2925-2949.
7. Chen, G. and Tang, B. (2022). Using nonregular designs to generate space-filling designs. *Journal of Statistical Planning and Inference*, **221**, 201-211.
8. Sun, C.Y. and Tang, B. (2022). Relationship between orthogonal and baseline parameterizations and its applications to design constructions. *Statistica Sinica*, **32**, 239-250.
9. Li, W., Liu, M.Q. and Tang, B. (2022). A systematic construction of compromise designs under baseline parameterization. *Journal of Statistical Planning and Inference*, **219**, 33-42.
10. Shi, C. and Tang, B. (2021). Model-robust subdata selection for big data. *Journal of Statistical Theory and Practice*, **15**(4), pp.1-17.
11. Li, W., Liu, M.Q. and Tang, B. (2021). A method of constructing maximin distance designs. *Biometrika*, **108**, 845-855.
12. Chen, A., Sun, C.Y. and Tang, B. (2021). Selecting baseline designs using a minimum aberration criterion when some two-factor interactions are important. *Statistical Theory and Related Fields*, **5**, 95-101.
13. Cheng, C.S., He, Y. and Tang, B. (2021). Minimal second order saturated designs and their applications to space-filling designs. *Statistica Sinica*, **31**, 867-890
14. Shi, C. and Tang, B. (2020). Construction results for strong orthogonal arrays of strength three. *Bernoulli*, **26**, 418-431.
15. Zhou, Y. and Tang, B. (2019). Column-orthogonal strong orthogonal arrays of strength two plus and three minus. *Biometrika*, **106**, 997-1004.
16. Shi, C. and Tang, B. (2019). Design selection for strong orthogonal arrays. *Canadian Journal of Statistics*, **47**, 302-314.
17. Shi, C. and Tang, B. (2019). Supersaturated designs robust to two-factor interactions. *Journal of Statistical Planning and Inference*, **200**, 119-128.
18. He, Y., Cheng, C.S. and Tang, B. (2018). Strong orthogonal arrays of strength two plus. *Annals of Statistics*, **46**, 457-468.
19. Karunanayaka, R.C. and Tang, B. (2018). On the existence and constructions of orthogonal designs. *Australian & New Zealand Journal of Statistics*, **60**, 471-480.
20. Shi, C. and Tang, B. (2018). Designs from good Hadamard matrices. *Bernoulli*, **24**, 661-671.
21. Sun, F. and Tang, B. (2017). A method of constructing space-filling orthogonal designs. *Journal of American Statistical Association*, **112**, 683-689.
(*This article is featured by SFU Faculty of Science on its webpage at http://www.sfu.ca/science/research/research-news/2017-10-Tang.html*)

22. Karunanayaka, R.C. and Tang, B. (2017). Compromise designs under baseline parameterization. *Journal of Statistical Planning and Inference*, **190**, 32-38.

23. Sun, F. and Tang, B. (2017). A general rotation method for orthogonal Latin hypercubes. *Biometrika*, **104**, 465-472.

24. Mukerjee, R. and Tang, B. (2016). Optimal two-level regular designs under baseline parametrization via cosets and minimum moment aberration. *Statistica Sinica*, **26**, 1001-1019.

25. Miller, A. and Tang, B. (2016). Using regular fractions of two-level designs to find baseline designs. *Statistica Sinica*, **26**, 745-759.

26. Lin, C.D. and Tang, B. (2015). Latin hypercubes and space-filling designs. In *Handbook of Design and Analysis of Experiments*, edited by Angela Dean et al., CRC Press, Chapter 17, 593-626.

27. Mukerjee, R., Sun, F. and Tang, B. (2014). Nearly orthogonal arrays mappable into fully orthogonal arrays. *Biometrika*, **101**, 957-963.

28. He, Y. and Tang, B. (2014). A characterization of strong orthogonal arrays of strength three. *Annals of Statistics*, **42**, 1347-1360.

29. Li, P., Miller, A. and Tang, B. (2014). Algorithmic search for baseline minimum aberration designs. *Journal of Statistical Planning and Inference*, **149**, 172-182.

30. Lekivetz, R. and Tang, B. (2014). Multi-level orthogonal arrays for estimating main effects and specified interactions. *Journal of Statistical Planning and Inference*, **144**, 123-132.

31. Mukerjee, R. and Tang, B. (2013). A complementary set theory for quaternary code designs. *Annals of Statistics*, **41**, 2768-2785.

32. He, Y. and Tang, B. (2013). Strong orthogonal arrays and associated Latin hypercubes for computer experiments. *Biometrika*, **100**, 254-260.

33. Miller, A. and Tang, B. (2013). Finding MDS-optimal supersaturated designs using computer searches. *Journal of Statistical Theory and Practice*, **7**, 703-712.

34. Tang, B. and Zhou, J. (2013). D-optimal two-level orthogonal arrays for estimating main effects and some specified two-factor interactions. *Metrika*, **76**, 325-337.

35. Wu, H., Mee, R., Tang, B. (2012). Fractional factorial designs with admissible sets of clear two-factor interactions. *Technometrics*, **54**, 191-197.

36. Mukerjee, R. and Tang, B. (2012). Optimal fractions of two-level factorials under a baseline parametrization. *Biometrika*, **99**, 71-84.

37. Lin, C.D., Sitter, R.R. and Tang, B. (2012). Creating catalogs of two-level nonregular fractional factorial designs based on the criteria of generalized aberration. *Journal of Statistical Planning and Inference*, **142**, 445-456.

38. Miller, A. and Tang, B. (2012). Minimal dependent sets for evaluating supersaturated designs. *Statistica Sinica*, **22**, 1273-1285.

39. Lekivetz, R. and Tang, B. (2011). Robust designs through partially clear two-factor interactions. *Biometrika*, **98**, 733-739.

40. Lin, C.D., Bingham, D., Sitter, R.R. and Tang, B. (2010). A new and flexible method for constructing designs for computer experiments. *Annals of Statistics*, **38**, 1460-1477.

41. Lin, C.D., Mukerjee, R. and Tang, B. (2009). Construction of orthogonal and nearly orthogonal Latin hypercubes. *Biometrika*, **96**, 243-247.

42. Bingham, D., Sitter, R.R. and Tang, B. (2009). Orthogonal and nearly orthogonal designs for computer experiments. *Biometrika*, **96**, 51-65.

43. Tang, B. and Zhou, J. (2009). Existence and construction of two-level orthogonal arrays for estimating main effects and some specified two-factor interactions. *Statistica Sinica*, **19** 1193-1201.

44. Qian, Z., Tang, B., and Wu, C.F.J. (2009). Nested space-filling designs for multiple experiments with different levels of accuracy. *Statistica Sinica*, **19** 287-300.

45. Loeppky, J., Sitter, R.R., and Tang, B. (2007), Nonregular designs with desirable projection properties. *Technometrics*, **49**, 454-467.

46. Tang, B. (2007), Construction results on minimum aberration blocking schemes for 2^m designs. *Journal of Statistical Planning and Inference*, **137**, 2355-2361.

47. Stufken, J. and Tang, B. (2007), Complete enumeration of two-level orthogonal arrays of strength d with $d+2$ constraints. *Annals of Statistics*, **35**, 793-814.

48. Tang, B. (2006). Orthogonal arrays robust to nonnegligible two-factor interactions. *Biometrika* **93**, 137-46.

49. Ke, W., Tang, B., and Wu, H. (2005), Compromise plans with clear two-factor interactions, *Statistica Sinica*, **15** 709-715.

50. Ingram, D.K. and Tang, B. (2005), Construction of minimum G-aberration designs via efficient computational algorithms, *Journal of Quality Technology*, **37** 101-114.

51. Cheng, C.S. and Tang, B. (2005), A general theory of minimum aberration and its applications, *Annals of Statistics*, **33** 944-958.

52. Li, Y., Deng, L.Y. and Tang, B. (2004), Design catalog based on minimum G-aberration, *Journal of Statistical Planning and Inference*, **124** 219-230.

53. Ke, W. and Tang, B. (2003), Selecting 2^{m-p} designs using a minimum aberration criterion when some two-factor interactions are important, *Technometrics*, **45** 352-360.

54. Tang, B. and Deng, L.Y. (2003), Construction of generalized minimum aberration designs of 3, 4, and 5 factors, *Journal of Statistical Planning and Inference*, **113** 335-340.

55. Tang, B., Ma, F., Ingram, D., and Wang, H. (2002), Bounds on the maximum numbers of clear two factor interactions for 2^{m-p} designs of resolution III and IV, *Canadian Journal of Statistics*, **30** 127-136.

56. Deng, L.Y. and Tang, B. (2002), Design selection and classification for Hadamard matrices using generalized minimum aberration criterion, *Technometrics*, **44** 173-184.

57. Cheng, C.S., Deng, L.Y., and Tang, B. (2002), Generalized minimum aberration and design efficiency for nonregular fractional factorial designs, *Statistica Sinica*, **12** 991-1000.

58. Nair, V.N., Tang, B., and Xu, L.A. (2001), Bayesian analysis of finite mixture models via data augmentation and its applications in reliability, *Journal of Quality Technology*, **33** 16-28.

59. Tang, B. (2001), Theory of J-characteristics for fractional factorial designs and projection justification of minimum G_2 aberration, *Biometrika*, **88** 401-407.

60. Cheng, C.S. and Tang, B. (2001), Upper bounds on the number of columns in supersaturated designs, *Biometrika*, **88** 1169-1174.

61. Ingram, D. and Tang, B. (2001), Efficient computational algorithms for searching for generalized minimum aberration designs, *American Journal of Mathematical and Management Sciences*, **21** 325-344.

62. Deng, L.Y., Li, Y., and Tang, B. (2000), Catalogue of nonregular designs with small runs from Hadamard matrices based on generalized minimum aberration criterion, *Communications in Statistics–Theory and Methods*, **29** 1379-1395.

63. Deng, L.Y. and Tang, B. (1999), Generalized resolution and minimum aberration criteria for Plackett-Burman and other nonregular factorial designs, *Statistica Sinica*, **9** 1071-1082.

64. Tang, B. (1999), Balanced bootstrap in sample surveys and its relationship with balanced repeated replication, *Journal of Statistical Planning and Inference*, **81** 121-127.

65. Tang, B. and Deng, L.Y. (1999), Minimum G_2-aberration for nonregular fractional factorial designs, *Annals of Statistics*, **27** 1914-1926.

66. Cheng, C.S., Martin, R.J., and Tang, B. (1998), Factorial designs with extreme numbers of level changes, *Annals of Statistics*, **26** 1522-1539.

67. Tang, B. (1998), Selecting Latin hypercubes using correlation criteria, *Statistica Sinica*, **8** 965-977.

68. Tang, B. and Wu, C.F.J. (1997), A method for constructing supersaturated designs and its Es^2 optimality, *Canadian Journal of Statistics*, 191-201.

69. Tang, B. and Wu, C.F.J. (1996), Characterization of minimum aberration 2^{n-k} designs in terms of their complementary designs, *Annals of Statistics*, 2549-2559.

70. Tang, B. (1994), Unbiased estimation for finite population parameters, *Scandivinian Journal of Statistics*, 91-95.

71. Tang, B. (1994), A theorem for selecting OA-based Latin hypercubes using a distance criterion, *Communications in Statistics–Theory and Methods*, 2047-2058.

72. Tang, B. (1993), Orthogonal array based Latin hypercube Sampling, *Journal of American Statistical Association*, 1392-1397.

- **Papers Under Review**

1. Swartz, T.B. and Tang, B. (2025). Tournament design in doubles pickleball.

- **Papers In Preparation**

1. Tang, B. (2025). Maximin Hamming distance arrays and their use for constructing space-filling designs.

- **Other Refereed Publications**

1. Tang, B. (2007), Latin hypercube designs, in *Encyclopedia of Statistics in Quality and Reliability*, Ruggeri, F., Kenett, R. and Faltin, F.W. (eds). John Wiley & Sons Ltd, Chichester, UK, pp 915-919.
2. Tang, B. (2007), A tour from minimum aberration to robust orthogonal arrays, *Proceedings of the 4th International Congress of Chinese Mathematicians*, edited by Ji, L., Liu, K., Yang, L. and Yau, S.T., Volume II, 693-701.

- **Book Reviews and Other Publications**

1. Tang, B. (2007), Modern Experimental Design by Thomas P. Ryan, *International Statistical Review* **75**, 258-259.
2. Tang, B. (2002), Experimental design with applications in management, engineering, and the sciences, by Paul D. Berger and Robert E. Maurer, *The American Statistician* **56**, 333-334.
3. Sitter, R.R. and Tang, B. (2004), A Profile of Professor C.F. Jeff Wu, *IMS Bulletin, Volume 33 - Issue 4.*

Invited Presentations

- **at Conferences**

1. 2025 Experimental Designs in the Era of Artificial Intelligence Workshop, UC Berkeley, March 7-8, 2025.
2. International Statistics Conference 2024, Colombo, Sri Lanka, December 28-29, 2024.
3. ICSA-Canada Chapter 2023 Local Event: Panel Discussion on Challenges and Opportunities in Statistics and Data Science, University of Waterloo, August 4, 2023.
4. QPRC 2022 - Quality & Productivity Research Conference, San Fransisco, June 13-16, 2022.
5. SSC 2018 Annual Meetings, Montreal, June 3-7, 2018.
6. Design of Experiments: New Challenges, Marseille, France, April 30 - May 4, 2018.

7. DAE 2017: Design and Analysis of Experiments Conference, UCLA, CA, October 12-14, 2017.
8. ICSA Canada Chapter Symposium on Frontiers of Big Data and Statistical Sciences, Vancouver, BC, August 18-20, 2017.
9. Latest Advances in the Theory and Applications of Design and Analysis of Experiments, Banff, Alberta, August 7-11, 2017.
10. ASA/IMS Spring Research Conference on Statistics in Industry and Technology, New Brunswick, New Jersey, May 15-17, 2017.
11. Conference on Experimental Design and Analysis, Taipei, Taiwan, December 15-17, 2016.
12. The Fourth International Conference on the Interface between Statistics and Engineering, Palermo, Italy, June 20-22, 2016.
13. International Conference on Design of Experiments, Memphis, Tennessee, May 10-13, 2016.
14. SIAM Conference on Uncertainty Quantification, Lausanne, Switzerland, April 5-8, 2016.
15. ISI 2015, the 60th World Statistics Congress, Rio de Janeiro, Brazil, July 26-31, 2015.
16. DAE 2015: Design and Analysis of Experiments Conference, SAS World Headquarters, Cary, NC, March 4-6, 2015.
17. Building Statistical Methodology and Theory 2014 In honor of Jeff Wu's 65th birthday, Mile, China, July 7-9, 2014.
18. Joint Meeting of the IASC Satellite Conference for the 59th ISI WSC and the 8th Asian Regional Section(ARS) of the IASC, Yonsei University, Seoul, Korea, August 22-23, 2013.
19. International Conference on Advances in Probability and Statistics - Theory and Applications, The Chinese University of Hong Kong, Hong Kong SAR, China, December, 2011.
20. DAE Workshop on Accelerating Industrial Productivity via Deterministic Computer Experiments and Stochastic Simulation Experiments, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, September 2011.
21. The 3rd Biennial Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM), University of Victoria, Canada, June 2011.
22. International Conference on Statistical Methodologies and Related Topics in conjunction with NZSA Annual Conference, Massey University, Palmerston North, New Zealand, 29 June 2010 - 1 July 2010.
23. The St. Petersburg Workshop on Simulation, St. Petersburg, Russia, July 2009.
24. 2008 International Conference on Applied Probability and Statistics (CAPS 2008), Hanoi, Vietnam, December 2008.

25. The Spring Research Conference on Statistics in Industry and Technology, Atlanta, May 2008.
26. The 4th International Congress of Chinese Mathematicians, Hangzhou, China, December 2007.
27. INFORMS 2007, Seattle, November 2007.
28. DAE 2007, Memphis, October 2007.
29. International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, NC, October 2007.
30. Complex Data Structures in the Health, Social and Environmental Sciences, Banff, Alberta, April 2007.
31. International Conference on Design and Analysis of Experiments, Tianjin, China, July 2006.
32. International Conference on Design of Experiments, Memphis, Tennessee, May 2005.
33. The 6th ICSA International Conference, Singapore, July 2004.
34. The Taipei Workshop on Design of Experiments, December 2003.
35. SCRA 2003 - International Conference on Statistics, Combinatorics, and Related Areas, Portland, Maine, October 2003.
36. The 2002 Taipei International Statistical Symposium and Bernoulli Society EAPR Conference, Taiwan, July 2002.
37. DAE1 Conference on Design and Analysis of Experiments, Vancouver, July 2002.
38. The IISA Fourth Biennial International Conference on Statistics, Probability and Related Areas, DeKalb, Illinois, June 2002.
39. The Spring Research Conference on Statistics in Industry and Technology, Ann Arbor, Michigan, May 2002.
40. The 5th International Conference of the International Chinese Statistical Association, Hong Kong, August 2001.
41. The R.C. Bose Memorial Conference On Statistical and Combinatorial Designs, Fort Collins, Colorado, June 1995.
42. The 3rd World Congress of Bernoulli Society and the 57th IMS Annual Meeting, Chapel Hill, North Carolina, June 1994.

- **at Universities or Similar Institutions**

1. School of Mathematics and Statistics, Wuhan University, December 2011.
2. Department of Probability and Statistics, Peking University, July 2010.
3. Department of Biostatistics, Columbia University, February 2008.
4. School of Mathematics and Statistics, Central China Normal University, July 2007.
5. Department of Statistics, Washington State University, April 2006.

6. Department of Mathematics and Statistics, University of Victoria, November 2005.
7. Institute of Statistical Science, Academia Sinica, Taipei, July 2005.
8. Department of Statistics, University of Georgia, May 2005.
9. Department of Statistics, Virginia Tech, Nov 2004.
10. Department of Statistics, University of Minnesota, March 2003.
11. Department of Statistics and Actuarial Science, Simon Fraser University, November 2002
12. Department of Statistics, Nankai University, June 1999
13. Department of Statistics, Peking University, June 1999
14. Department of Statistics, University of Waterloo, May 1999
15. St. Jude Children Research Hospital, Memphis, November 1997
16. Business Survey Methods Division, Statistics Canada, Ottawa, June 1996
17. Department of Statistics, University of Waterloo, February 1995
18. Department of Statistics, New York University, March 1994
19. Department of Statistics, University of Michigan, November 1993
20. Department of Statistics, University of Toronto, February 1993

Other Professional Service and Activities

- Organized and chaired an invited session for DAE 2024, Virginia Tech, May 15-17, 2024.
- Chaired an invited session for Conference on Experimental Design and Analysis, Taipei, Taiwan, Dec 17-19, 2023.
- Organized an invited session for ASA/IMS Spring Research Conference on Statistics in Industry and Technology, Banff, Canada, May 24-26, 2023.
- Organized and chaired an invited session for The 5th International Conference on Econometrics and Statistics (EcoSta 2022), Kyoto, Japan, 4-6 June 2022.
- Organized and chaired an invited session on factorial designs for DAE 2019 Conference at University of Tennessee, Knoxville, Oct 17-19, 2019.
- Organized and chaired an invited session on factorial designs and orthogonal arrays for the 8th International Conference on Risk Analysis and Design of Experiments in Honour of Distinguished Professor Samad Hedayat, Vienna, April 23-26, 2019.
- Organized and chaired an invited session on computer experiments at the International Conference on Design of Experiments, Memphis, Tennessee, May 10- 13, 2016.

- Organized and chaired a Special Invited Session in Honor of Ching-Shui Cheng at the 20th ASA/IMS Spring Research Conference (SRC 2013) on Statistics in Industry and Technology, UCLA, June 20-22, 2013.
- Organized and Chaired an Invited Session for DAE 2012, Athens, Georgia.
- Co-led a Round Table discussion on *Writing and Publishing* for junior researchers, at DAE 2012, Athens, Georgia.
- President 2011 - 2012 (President-Elect 2010 - 2011 and Past-President 2012 - 2013), the Business and Industrial Statistics Section of the SSC.
- International Advisory Committee, International Conference on Design of Experiments, May 10-13, 2011, University of Memphis. Also organized and chaired an invited session for this conference.
- Organized and chaired an invited session, Joint Statistical Meetings, Vancouver, August 2010.
- Organized an invited session, Joint Research Conference on Statistics in Quality, Industry, and Technology, May 25 - 27, 2010, National Institute of Standards and Technology, Gaithersburg, MD.
- Program Chair and Local Arrangement Chair, the 16th ASA/IMS Spring Research Conference on Statistics in Industry and Technology, Vancouver, May 2009.
  The proposal received funding from PIMS ($15,000), MITACS ($10,000), SAS ($3,000), JMP ($3,000) and SFU ($1,500).
- Organized and Chaired an Invited Session, Spring Research Conference, Dayton, Ohio, May 2003
- Permanent member of ASA, IMS, and ICSA; member of SSC.
- Vice President, ASA Western Tennessee Chapter, 1999-2002
- Expert witness at a court in Little Rock, Arkansas, which is part of a statistical consulting project with the National Labor Relations Board, 1999
- Secretary and Treasurer, ASA Western Tennessee Chapter, 1998-1999
- Secretary 1996-1997, Statistical Society of Ottawa
- Coordinator for the participation of the ASA Western Tennessee Chapter in Memphis-Shelby County Science Fair, 1998-2003

Department and University Service

- At Simon Fraser University:

  - 2024 - 2025: Nomination
  - 2023 - 2024: Study Leave
  - 2022 - 2023: Nomination
  - 2021 - 2022: T and P; Hiring
  - 2020 - 2021: Associate Chair; Hiring;
  - 2019 - 2020: Associate Chair; Seminar; Hiring; Math T and P
  - 2018 - 2019: Study Leave
  - 2017 - 2018: Seminar; Hiring Committee
  - 2016 - 2017: T and P; Nomination
  - 2015 - 2016: Undergrad Program Revisions; Library Liaison
  - 2014 - 2015: T and P; Undergrad Program Revisions; Nomination
  - Graduate Study Committee, 2013 - 2014
  - Departmnet Safety Rep, 2013 - 2014
  - Department Internal NSERC Review Committee, 2012-2013
  - Seminar Co-Organizer 2012 - 2013
  - Department T and P committee, 2010 - 2011
  - Department TA co-ordinator, 2010 - 2011
  - Seminar Co-Organizer 2009 - 2010
  - Graduate Studies Committee 2004-2009
  - Graduate Studies Chair 2003-2004

- At University of Memphis:
  - Statistics Master's Comprehensive and Ph.D. Qualifying Exams Committee 1997-2000; Organizer of Statistics Seminar Series 1997-2002; Library Committee 1997-1999; Colloquium Committee 1999-2002; Undergraduate Committee 2002-2003; Faculty Senate 2000-2002; Provost SIRS Committee 2002-2003

Teaching Experience

Complete teachinging history at Simon Fraser University, since 2003

- STAT 350 Linear models in applied statistics, spring 2025
- STAT 850 Linear models and applications, fall 2024
- STAT 430 Design and analysis of experiments, fall 2024
- STAT 410 Statistical analysis of sample surveys, spring 2023
- STAT 450 Statistical Theory, fall 2022

- STAT 850 Linear models and applications, fall 2022
- STAT 410 Statistical analysis of sample surveys, spring 2022
- STAT 450 Statistical Theory, fall 2021
- STAT 850 Linear models and applications, fall 2021
- STAT 450 Statistical Theory, fall 2020
- STAT 850 Linear models and applications, fall 2020
- STAT 403/603 Intermediate Sampling and Experimental Design, spring 2020
- STAT 850 Linear models and applications, fall 2019
- STAT 270 Introduction to probability and statistics, summer 2018
- STAT 270 Introduction to probability and statistics, spring 2018
- STAT 850 Linear models and applications, fall 2017
- STAT 270 Introduction to probability and statistics, fall 2017
- STAT 380 Introduction to Stochastic Processes, spring 2017
- STAT 430 Design and analysis of experiments, fall 2016
- STAT 850 Linear models and applications, fall 2016
- STAT 285 Intermediate probability and statistics, spring 2016
- STAT 330 Introduction to mathematical statistics, fall 2015
- STAT 850 Linear models and applications, fall 2015
- STAT 285 Intermediate probability and statistics, spring 2015
- STAT 350 Linear models in applied statistics, fall 2014
- STAT 850 Linear models and applications, fall 2014
- STAT 285 Intermediate probability and statistics, spring 2014
- STAT 350 Linear models in applied statistics, fall 2013
- STAT 850 Linear models and applications, fall 2013
- STAT 350 Linear models in applied statistics, spring 2013
- STAT 450 Statistical Theory, fall 2012
- STAT 890-850 Linear models and applications, fall 2012
- STAT 350 Linear models in applied statistics, spring 2011
- STAT 330 Introduction to mathematical statistics, fall 2010
- STAT 430 Design and analysis of experiments, fall 2010
- STAT 890 Special topics: advanced course in experimental design, spring 2010
- STAT 285 Intermediate probability and statistics, fall 2009
- STAT 430 Design and analysis of experiments, fall 2009

- STAT 330 Introduction to mathematical statistics, summer 2009
- STAT 430 Design and analysis of experiments, fall 2008
- STAT 450 Statistical Theory, fall 2008
- STAT 285 Intermediate probability and statistics, summer 2008
- STAT 285 Intermediate probability and statistics, spring 2007
- STAT 410 Statistical analysis of sample surveys, spring 2007
- STAT 430 Design and analysis of experiments, fall 2006
- STAT 410 Statistical analysis of sample surveys, spring 2006
- STAT 890 Special topics: advanced course in experimental design, spring 2006
- STAT 285 Intermediate probability and statistics, fall 2005
- STAT 430 Design and analysis of experiments, fall 2005
- STAT 285 Intermediate probability and statistics, spring 2005
- STAT 330 Introduction to mathematical statistics, fall 2004
- STAT 430 Design and analysis of experiments, fall 2004
- STAT 402/602 Generalized linear and nonlinear modelling, spring 2004

Courses taught at University of Memphis, 1997 - 2003

- Design and analysis of experiments
- Survey sampling
- Bootstrap and other resampling methods
- Survival analysis
- Theory of probability and queueing
- Probability models
- Introduction to probability theory
- Introduction to mathematical concepts

Courses taught at University of Western Ontario, 1994 - 1995

- Design of experiments
- Regression analysis
- Theory of hypothesis testing
- Theory of linear models

Graduate Students

- Hasitha Jayaneththi, PhD student, in progress
- Sashini Fransisku Hettige, PhD student, in progress
- Annie Yao, MSc student, in progress
- Hasitha Jayaneththi, MSc student, 2025
- Sashini Fransisku Hettige, MSc student, 2024
- Guanzhou Chen, PhD student, 2023
- Darsha Perera, MSc student, 2023
- Manpreet Kaur Manpreet, MSc student, 2023
- Wendy Wang, MSc student, 2022
- Cheng-Yu Sun, PhD student, 2021
- Chenlu Shi, PhD student, 2019
- Anqi Chen, MSc student, 2019
- Chamara Karunanayaka, PhD student, 2018
- Rajitha Silva, PhD student, 2016 (co-supervised with Tim Swartz)
- Chenlu Shi, MSc student, 2015
- Kunasekaran Nirmalkanna, MSc student, 2014
- Vicky Weng, MSc student, 2014
- Crystal Li, MSc student, 2011
- Ryan Lekivetz, PhD student, 2011
- Donghong Wu, MSc student, 2009
- Chungfang Lin, PhD student, 2008
- Jason Loeppky, PhD student, 2004
- Weiming Ke, PhD student, Univ of Memphis, 2005
- Yingfu Li, PhD student, Univ of Memphis, 2000
- Debra Ingram, PhD student, Univ of Memphis, 2000