Qing (Wendy) Wang

Office Phone: 781-283-3397 Email: qwang@wellesley.edu

Education

Ph.D. in Statistics 08/2012
Department of Statistics, The Pennsylvania State University
State College, PA 16802
Advisor: Bruce G. Lindsay, Professor and Holder of the Eberly Chair in Statistics
Dissertation: Investigation of topics in U-statistics and their applications in risk estimation and cross-validation

M.S. in Statistics 12/2010
Department of Statistics, The Pennsylvania State University
State College, PA 16802

B.S. in Statistics 07/2007
Department of Statistics, School of Mathematical Sciences
Beijing Normal University, Beijing, China

Appointments

Associate Professor (tenured) 09/2020 – Present
Department of Mathematics
Wellesley College

Assistant Professor (tenure-track) 07/2016 – 08/2020
Department of Mathematics
Wellesley College

Assistant Professor (tenure-track) 07/2015 – 06/2016
Department of Mathematical Sciences
Bentley University

Assistant Professor (tenure-track) 07/2012 – 06/2015
Department of Mathematics and Statistics
Williams College

Publications

Peer-Reviewed Journals:

1. X. Cai, Q. Wang, and Y. Zhu (2023). Mediation analysis with latent factors using simultaneous group-wise and parameter-wise penalization. *Stat*.
   DOI: http://dx.doi.org/10.1002/sta4.630
2. Q. Wang and X. Cai (2023). Active-learning class activities and Shiny applications for teaching support vector classifier. *Journal of Statistics and Data Science Education*. DOI: http://dx.doi.org/10.1080/26939169.2023.2231065
3. Q. Wang and X. Cai (2023). Online repository for facilitating teaching and learning of undergraduate statistical modeling tools. Proceedings of the 9th international conference on higher education advances (HEAd'23). *Editorial Universitat Politècnica de València, Valencia, Spain*.
   DOI: http://dx.doi.org/10.4995/HEAD23.2023.16871
4. A. Zambom and Q. Wang (2023). Testing independence between discrete random variables. *Communications in Statistics–Theory and Methods*, 52(3): 956-971.
   DOI: http://dx.doi.org/10.1080/03610926.2021.1934026.
5. Q. Wang and Y. Wei* (2022). Quantifying uncertainty of subsampling-based ensemble methods under a U-statistic framework. *Journal of Statistical Computation and Simulation*, 92 (17): 3706-3726. DOI: http://dx.doi.org/10.1080/00949655.2022.2081969.
6. A. Zambom, Q. Wang, and R. Dias (2022). A basis approach to surface clustering. *Statistics, Optimization, and Information Computing*, 10(2): 339-351.
   DOI: https://doi.org/10.19139/soic.v10i2

7. Q. Wang and X. Cai (2021). An efficient variance estimator for cross-validation under partition-sampling. *Statistics: A Journal of Theoretical and Applied Statistics*, 55(3): 660-681. DOI: http://dx.doi.org/10.1080/02331888.2021.1943393.
8. Q. Wang and A. Guo* (2020). An efficient variance estimator of AUC with applications to binary classification. *Statistics in Medicine*, 39(28): 4281-4300. DOI: http://dx.doi.org/10.1002/sim.8725.
9. X. Cai and Q. Wang (2020). Educational tool and hands-on active-learning class activity for teaching agglomerative hierarchical clustering. *Journal of Statistics Education*, 28(3): 280-288. DOI: http://dx.doi.org/10.1080/10691898.2020.1799727
10. Q. Wang (2020). Multivariate Kernel Smoothing and Its Applications, *Journal of the American Statistical Association*, 115(529): 486.
11. Q. Wang (2020). Lindsay, Bruce G. *Wiley StatsRef: Statistics Reference Online*, DOI: 10.1002/9781118445112.stat08239.
12. Y. Dang* and Q. Wang (2019). Simultaneous variable and factor selections via sparse group lasso in factor analysis. *Journal of Statistical Computation and Simulation*, 89(14): 2744-2764.
13. Q. Wang and A. Z. Zambom (2019). Subsampling-extrapolation bandwidth selection in bivariate kernel density estimation. *Journal of Statistical Computation and Simulation*, 89(9): 1740-1759.
14. Q. Wang (2019). Extrapolation-based cross-validation bandwidth selectors: a review and comparative study with discussion on bivariate applications. *International Statistical Review*, 87(1): 127-151.
15. Q. Wang and L. M. Tabacu (2019). On distribution function estimation using log-odds interpolation, *Journal of Statistical Theory and Practice*, 13(42): 1-28. DOI: https://doi.org/10.1007/s42519-019-0044-9.
16. Y. Wu* and Q. Wang (2019). Improving multi-label classification via heterogeneous ensemble methods, *Involve, a journal of mathematics*, 12(6):1035-1050.
17. Q. Wang and D. Zhao* (2019). Penalization with group-wise sparsity: econometric applications to eBay Motors online auctions. *Empirical Economics*, 57(2): 683-704.
18. Q. Wang and B. G. Lindsay (2017). Pseudo-kernel method in U-statistic variance estimation with large kernel size. *Statistica Sinica* 27(3): 1155-1174.
19. Q. Wang (2017). Extrapolation techniques in U-statistic variance estimation. *Communications in Statistics–Theory and Methods*, 46(17): 8387-8400.
20. J. Warner*, O. Dobromyrova*, D. Shay*, and Q. Wang (2017). Deeper pockets, deeper pleasure? *Significance* April issue: 34-37.
21. Q. Wang and B. G. Lindsay (2015). Improving cross-validated bandwidth selection using subsampling-extrapolation techniques. *Computational Statistics & Data Analysis*, 89: 51-71.
22. Q. Wang and S. Chen* (2015). A general class of linearly extrapolated variance estimators. *Statistics & Probability Letters*, 98: 29-38.
23. Q. Wang and B. G. Lindsay (2014). Variance estimation of a general U-statistic with application to cross-validation. *Statistica Sinica*, 24(3): 1117-1141.
24. V. Le* and Q. Wang (2014). Robust thresholding for Diffusion Index forecast. *Economics Letters*, 125: 52-56.

Other Publications:

25. Q. Wang (2015). Extrapolated variance estimators. *2015 Proceedings of the Joint Statistical Meetings*, Section on Nonparametric Statistics, Alexandria, VA: American Statistical Association, 3532-3545.

*: student co-authors.

26. Q. Wang (2012). Investigation of topics in U-statistics and their applications in risk estimation and cross-validation (Ph.D. dissertation). *Penn State University library electronic resource*, 1-187.
27. Q. Wang and B. G. Lindsay (2011). Topics in U-statistics and risk estimation. *2011 Proceedings of the Joint Statistical Meetings*, Section on Nonparametric Statistics, Alexandria, VA: American Statistical Association, 1267-1280.

Software development:

28. F. M. Jimenez* and Q. Wang (2022). "aucvar": a **R** package for variance estimation of AUC. DOI: 10.5281/zenodo.7071862
https://github.com/qing-wendy-wang/aucvar

Work Submitted (not yet accepted):

29. S. Ning, A. Hussain*, and Q. Wang (2023). Incorporating connectivity among internet search data for enhanced influenza tracking.

Ongoing Projects

1. Q. Wang, Y. Zhao, and T. Zhang
Project Title: Jackknife empirical likelihood for infinite-order U-statistics
2. Q. Wang and X. Cai
Project Title: Variance estimation for multivariate U-statistics
3. J. Hu*, M. DeSimone*, and Q. Wang
Project Title: Incorporating latent grouping structure among mediators to high-dimensional mediation analysis
4. Q. Wang
Project Title: U-statistic variance estimation with large degree k

Teaching Experience

Courses taught at Wellesley College
STAT 101 (Elementary Applied Statistics)
STAT 218** (Introductory Statistics and Data Analysis)
STAT/MATH 220 (Probability and Statistics)
STAT 228** (Multivariate Data Analysis)
STAT 318** (Regression Analysis and Statistical Models)

Courses taught at Bentley University
STAT 625 (Quantitative Analysis for Business, graduate level)
Topics: ordinary linear regression and generalized linear regression
STAT 635 (Intermediate Statistical Modeling for Business, graduate level)
Topics: multivariate data analysis and selected topics in data mining

Courses taught at Williams College
STAT 101 (Elementary Statistics and Data Analysis)
STAT 201 (Statistics and Data Analysis)
STAT 341 (Bayesian Statistics)
STAT 346 (Regression and Forecasting)
STAT 462** (Modern Nonparametric Statistics)
STAT 014** (An Introduction to the Chinese Tea Culture)

Courses taught at Penn State
STAT 240 (Introduction to Biometry)
STAT 462 (Applied Regression Analysis)

Industry Experience

Full-time Intern 06/2011-08/2011
Personal Insurance Research and Development Program,
Travelers Insurance, Hartford, CT

**: courses proposed and developed by me.

Part-time Assistant 08/2005-07/2007
Scottish Development International,
Beijing Representative Office, Beijing, China

Honors Theses Supervised

Department of Mathematics, Wellesley College
Thesis advisor for the following honors theses:

- Ziyue (Cherith) Chen '24, Wellesley College (ongoing)
  Thesis tile: "Multi-label classification with extraction of label associations through clustering"
- Yujie (Phyllis) Wei '21, Wellesley College
  Thesis title:" Quantifying variation of subsampling-based ensemble methods under a U-statistic framework".
- Alexandria Guo '19, Wellesley College
  Thesis title: "An unbiased variance estimation of a K-sample U-statistic with applications to AUC in binary classification".
- Yujue (Victoria) Wu '18, Wellesley College
  Thesis title: "Multi-label super learner: multi-label classification and improving its performance using heterogeneous ensemble methods".
- Yuanchu Dang '17 (highest honors), Williams College
  Thesis title: "Simultaneous variable and factor selections via sparse group lasso in factor analysis".

Thesis committee member or visitor for the following honors thesis:

- Brooke Perreault'24, Wellesley College (ongoing)
  Thesis title: TBD
- Yijie (Helen) Chen '23, Wellesley College
  Thesis title: "Blood glucose prediction for Type 1 diabetes: learning RNN-LSTM models using a real-world dataset"
- Cindy Zhao '22, Wellesley College
  Thesis title: "Accumulated discrimination in the legal field: evidence from young lawyers"
- Sarah Elizabeth Stockman '22, Wellesley College
  Thesis title: "Biodiversity, structure, and function: predicting changes in biomass with biodiversity and canopy structural metrics in disturbed NEON forests".
- Kelly Kung '17, Wellesley College
  Thesis title: "Analysis of the effects of first year advisors and first year mentors on a Wellesley student's choice of STEM vs. non STEM major".

Committee member for honors through examinations:

- Yijia (Helen) Chen '23, Wellesley College
- Haimei Zhang '19, Wellesley College
- Molly Hoch '18, Wellesley College
- Sharon Zhang '18, Wellesley College

Department of Math&Stat, Williams College
Thesis advisor for the following honors theses:

- Shiwen (Heidi) Chen '14, Williams College
  Thesis title: "Resampling methods with application to variance estimation".
- Vu Le '14 (highest honors), Williams College
  Thesis title: "Time-series forecasting using large number of predictors".

Thesis committee member for the following honors theses:

- Faraz Rahman '14 (highest honors), Williams College
  Thesis title: "Simultaneous inference on margins of correlated binary data".

- Victor Luo '14, Williams College
  Thesis title: "Relieving and readjusting pythagoras".
- Ben Seiler '13, Williams College
  Thesis title: "The forest through the trees in multilabel classification".

Other Research Supervision

- Independent Study (data science capstone project) Fall 2023
  Student: Victoria Lu '24
- Research Project (mediation analysis) 2022-2024
  Research Students: Marley DeSimone '24 and Amy Hu '25
- Development of R package "aucvar" Spring 2022
  Research Student: Francisca Moya Jimenez '22, Wellesley College
- Science Center HHMI Inclusive Excellence initiative Spring 2019
  Project title: "Designing interactive statistical apps".
  Research Students: Donna Gan '20 and Ying Ying Yang '22, Wellesley College
- Science Center Summer Research, Wellesley College Summer 2018
  Project title: "Beyond least squares–robust regression analysis".
  Research students: Donna Gan '20 and Keran Huang '21, Wellesley College
- Science Center Summer Research, Wellesley College Summer 2017
  Project title: "Multilable classification and its applications".
  Research student: Victoria Wu '18, Wellesley College
- Faculty mentor for USPROC winning projects
  The Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) and the American Statistical Association (ASA)

  ∗ Honorable mention project for USCLAP Spring 2023
  Project title: "Music And Mind: Examining The Relationship Between Music Listening Behaviors And Self-Reported Mental Health"
  Students: Maggie Hsu '24 and Vivian Ma '24

  ∗ First place winning project for USCLAP Spring 2022
  Project title: "Uncovering The Relationship Between Online News Characteristics And Popularity"
  Students: Valerie Tseng '23 and Sinclaire Schuetze '23

  ∗ Honorable mention project for USCLAP Spring 2022
  Project title: "Male Fertility Analysis: Identifying Significant Variables And Predicting Fertility Outcomes"
  Students: Huda Saeed '23 and Marisa Papagelis '22

  ∗ Third place winning project for USRESP 2019
  Project title: "An Unbiased Variance Estimator of a K-sample U-statistic with Application to AUC in Binary Classification".
  Students: Alexandria Guo '19, Wellesley College

  ∗ Honorable mention project for USCLAP 2019
  Project title: "Comparison of four multi-label classification methods".
  Students: Keran Huang '21 and Han Qiao '19, Wellesley College

  ∗ Second place winning project for USCLAP 2019
  Project title: "Facebook or Fakebook: identifying fake Facebook accounts".
  Students: Donna Gan '20 and Phyllis Wei '21, Wellesley College

  ∗ Third place winning project for USCLAP 2018
  Project title: "Predictors for breast cancer recurrence".
  Students: Yujue (Victoria) Wu '18 and Clara Sorensen '18, Wellesley College

USPROC: Undergraduate Statistics Project Competition.
USCLAP: Undergraduate Statistics Class Project Competition.
USRESP: Undergraduate Statistics Research Project Competition

∗ Honorable mention winning project for USCLAP 2018
Project title: "Central News Theorem: predicting online news popularity".
Students: Cynthia Chen '19 and Anna Caldwell-Overdier '19, Wellesley College

∗ First place winning project for USCLAP 2015
Project title: "Predictors for winning in men's professional tennis".
Students: Matthew Quinn '17 and Stephanie Stacy '17, Williams College

Student Research Talks Supervised

Tanner Conference, Wellesley College

- Marley DeSimone '24
  Title: "Exploring public health through biostatistics"

Ruhlman Conference, Wellesley College

- Veeksha Mandu '22
  Title: "Trends in cost of childcare in Washington state"
- Victoria Wu '18
  Topic: "Multi-label super learner"

Department of Mathematics, Wellesley College

- Victoria Wu '18
  Topic: "Support vector machine and its applications".

Department of Math&Stat, Williams College

- Ivan Rybkin '15
  Topic: "Error propagation law".
- Phonkrit Tanavisarut '15
  Topic: "Stretching the fishing net with penalization".
- Nathan McCue '15
  Topic: "Smoothing splines".
- Alexander Nanda '15
  Topic: "Linear discriminant analysis".
- Ally Ensor '14
  Topic: "Deming regression".
- Catherine Gerkis '14
  Topic: "Penalized regression: ridge and lasso".

Invited Presentations or Panel discussions

"*An efficient variance estimator for cross-validation under partition-sampling*"
6th International Conference on Econometrics and Statistics, Tokyo, Japan 08/2023

"*Quantifying uncertainty of subsampling-based ensemble methods*"
International Conference in Mathematics and Applications, Thailand 12/2022

"*Variable selection for mediation analysis with latent factors via group-wise penalization*"
Special session on "Recent Development in Mediation Analysis"
15th International Conference on Computational and Methodological Statistics 12/2022
London, United Kingdom

"*Quantifying uncertainty of subsampling-based ensemble methods*"
Brunel Mathematics Doctoral Researchers' Symposium (guest speaker)
Department of Mathematics, Brunel University London, England 06/2022

"*Assessing variation of subsampling-based ensemble methods*"
Department of Mathematics and Statistics, Connecticut College 10/2021

"*An efficient variance estimator of AUC and its applications to binary classification*"
(virtual presentation)

International Conference in Mathematics and Applications, Thailand 12/2020

"*An efficient variance estimator of AUC and its applications to binary classification*"
Department of Mathematics and Statistics, UNC Greensboro 10/2020

"*Subsampling-extrapolation bandwidth selection in bivariate kernel density estimation*"
Statistics and Probability Seminar, UMass Amherst, MA 03/2020

"*Improving multilabel classification via heterogeneous ensemble methods*"
Department of Mathematics and Statistics, Vassar College, NY 02/2020

"*Subsampling-extrapolation bandwidth selection in bivariate kernel density estimation*"
12th International Conference on Computational and Methodological Statistics 12/2019
London, United Kingdom

"*Panel discussion: Intro Stat Course–Then and Now: How has our introductory statistics course changed/should change?*"
The 24th New England Isolated Statistician Meetings, Wellesley, MA 11/2019

"*Subsampling-extrapolation bandwidth selection in bivariate kernel density estimation*"
Faculty seminar, Department of Statistics 08/2019
Capital Normal University, Beijing, China

"*Simultaneous variable and factor selections via sparse group lasso in factor analysis*"
Faculty seminar, School of Statistics and Management 07/2019
Shanghai University of Finance and Economics, Shanghai, China

"*Panel discussion: software in statistics courses*"
The 23rd New England Isolated Statistician Meetings, Wellesley, MA 10/2018

"*Pseudo-kernel method in assessing the variation of cross-validated risk*"
2018 ICSA China Conference, Qingdao, China 07/2018

"*Panel discussion: Nonprofit organizations, Pharmaceutical, and IT industry*"
Conference for the 50th anniversary of the Penn State Statistics Department 05/2018
State College, PA

"*Penalization with group-wise sparsity with application to eBay Motors online auction*"
2016 Analytics without Boarders conference, Waltham, MA 04/2016

"*Assessing the precision of an unbiased estimator*"
Department of Mathematics, Wellesley College 02/2016

"*Finding the best model using a U model selection tool*"
Department of Mathematical Sciences, Bentley University 01/2015

"*An improved method in bagging cross-validation with second-order extrapolation*"
Department of Statistics, School of Mathematical Sciences, Beijing Normal University, Beijing, China 06/2014

"*How does the eruption time of the Old Faithful geyser vary?*"
Department of Mathematics and Statistics, Colby College 10/2013

"*Subsampling and extrapolation techniques in kernel density estimation*"
The 2nd Taihu International Statistics Forum, Suzhou, China 07/2013

"*Cross-validation and a U model selection tool*"
The 4th IMS-China International Conference, Chengdu, China 07/2013

"*Topics in U-statistics and risk estimation*"
Department of Statistics and Probability, Michigan State University 02/2012
Department of Mathematics and Statistics, Austin Peay State University 02/2012
Department of Mathematics and Statistics, Williams College 01/2012
Department of Natural Sciences, University of Wisconsin 12/2011
2011 Joint Statistical Meetings, Section on Nonparametric Statistics 08/2011

Conference Presentations

Oral Presentations:

"*Jackknife empirical likelihood for quantifying variability of infinite-order U-statistics*"
IMS International Conference on Statistics and Data Science 12/2023
Lisbon, Portugal

"*Online repository for facilitating teaching and learning of statistical modeling courses*"
9th International Conference of Higher Education Advances 06/2023
Valencia, Spain

"*Quantifying uncertainty of subsampling-based ensemble methods under a U-statistic framework*" (virtual presentation)
14th International Conference on Computational and Methodological Statistics 12/2021
London, United Kingdom

"*Pseudo-kernel method in assessing cross-validated risk*"
The 2018 Joint Statistical Meetings (Vancouver, Canada)

"*Extrapolation techniques in U-statistic variance estimation*"
The 2015 Joint Statistical Meetings (Seattle, WA)

"*A class of linearly extrapolated variance estimators*"*
The 2014 Joint Statistical Meetings (Boston, MA)

"*Time-series forecasting with large number of predictors*"*
The 2014 Joint Statistical Meetings (Boston, MA)

"*An improved bagging cross-validation method with second-order extrapolation in bandwidth selection*"
The 2014 Joint Statistical Meetings (Boston, MA)

"*Two-stage subsampling-extrapolation techniques in bandwidth selection*"
The 2013 Joint Statistical Meetings (Montreal, Canada)

"*Cross-validation and a U-statistic model selection tool*"
The 2013 ENAR Spring Meetings (Orlando, FL)

"*Cross-validation and BIC in model selection*"
The 2012 Joint Statistical Meetings (San Diego, CA)

Poster Presentations:

"*Improving the performance of cross-validation in kernel density estimation*"
The 2014 Women in Statistics Conference (Raleigh-Durham/Research Triangle, NC)

"*Topics in U-statistics and risk estimation*"
The 2011 ENAR Spring Meetings (Miami, FL)
The 2011 Joint Statistical Meetings (Miami Beach, FL)

"*Topics in U-statistics and risk estimation*"
The 2011 Rao Prize Conference (Penn State-University Park, PA)

*: student presentation.

"*The unbiased estimator of the variance of a U-statistic and its resampling realization*"
Conference on Resampling and High-Dimensional Data (Texas A&M, TX) 2010

Honors&Awards

- Brachman Hoffman Small Grant, Wellesley College 2022-2024
- Faculty Awards (travel grant) 2023
- Faculty Awards (summer research) 2023
- Education Research & Development grant (pedagogical travel grant) 2023
- Faculty Awards (summer research) 2022
- The BOW Presidential Innovation Grant 2020
- Brachman Hoffman Small Grant, Wellesley College 2020
- Educational Research & Development grant, Wellesley College 2020
- Faculty Awards (travel grant), Wellesley College 2019
- Educational Research & Development grant, Wellesley College 2019
- Faculty Awards (travel grant), Wellesley College 2018
- Educational Research & Development grant, Wellesley College 2018
- Faculty mentor for the winning projects of USPROC
  The Consortium for the Advancement of Undergraduate Statistics Education and the American Statistical Association
  USCLAP competition (intermediate statistics)
  - Honorable mention winning project Spring 2023
  - The first place and honorable mention winning projects Spring 2022
  - Honorable mention winning project Fall 2019
  - The third place winning research project Fall 2019
  - The second place winning project Spring 2019
  - The third place & honorable mention winning projects Fall 2018
  - The first place winning project Spring 2015
- Junior Researcher Travel Awards, ASA Women in Statistics Committee 2014
- Winner of 2011 ASA Nonparametric Session Student Paper Competition 2011
- Outstanding undergraduate (highest honors), Beijing Normal University 2007
- Outstanding teaching intern, Beijing Normal University 2006
  (intern at Beijing No.4 High School)
- University academic fellowships, Beijing Normal University 2003-2007

Journal Refereeing

- Stat 2023
- Electronic Journal of Statistics 2023
- IEEE Signal Processing Letters 2023
- Journal of Scientific Computing 2022-2023
- The American Statistician 2018, 2023
- Journal of Machine Learning Research 2022
- Journal of the American Statistical Association 2020-2022
- Statistics 2018, 2022
- Annals of Statistics 2020
- Journal of Statistical Computation and Simulation 2020
- Journal of Statistical Planning and Interface 2018-2020
- Statistica Sinica 2017
- Canadian Journal of Statistics 2016

- Journal of Statistical Theory and Practice 2015
- Hacettepe Journal of Mathematics and Statistics 2015
- Journal of Statistics Education 2014

Reviewer

- Book reviewer for a probability textbook 2022
  Publisher: Taylor & Francis Group
- Grant reviewer for Swiss National Science Foundation 2019, 2020
- Mathematical Reviews 2017-present
- Book reviewer for a statistics textbook 2017
  Publisher: CRC Press, Taylor & Francis Group.

College and Departmental Service

Wellesley College

- Committee member
  Department administrative assistant hiring committee 2023
- Committee member
  Advisory Committee on Minority Recruiting, Hiring, and Retention 2021-2023
- Tutor and grader coordinator, mathematics department 2021-2022
- First-year advisor 2021-2022
- Committee member, statistics hiring committee 2021
- Co-director of Data Science 2019-present
- Committee member, mathematics hiring committee 2018-2019
- First-year advisor 2018-2019
- Committee member
  Advisory Committee on Minority Recruiting, Hiring, and Retention 2017-2019
- Committee member, Interdisciplinary Committee for Data Science 2016-2018
- Fall colloquium organizer, mathematics department 2017-2018

Bentley University

- Committee member, statistics hiring committee 2015-2016
- Advisor of Liberal Studies major 2015-2016

Williams College

- Committee member, Diversity and Community Committee 2014-2015
- Fall colloquium organizer, Math&Stat department 2014-2015
- Committee member, Olmsted Committee 2013-2014
- Winter Study colloquium organizer, Math&Stat department 2013-2014
- Committee member, Science Executive Committee 2013-2014
- First-year advisor 2013-2015
- Committee member, statistics hiring committee 2012-2013
- Actuarial advising 2012-2013

Professional Service

- Organizer, Special Session on Recent Advances on Jackknife Empirical Likelihood
  6th International Conference on Computational and Methodological Statistics, Berlin, Germany 2023
- Co-organizer, ASA BOW DataFest 2023
  BOW (Babson College, Olin College, and Wellesley College)
- Organizer, Special Session on Statistics and Data Science Curriulum in a Mathematics Department
  2023 Joint Mathematics Meetings, Boston, MA 2023
- Co-organizer, Student Research Symposium on Statistics and Data Science 2020
  Sponsored by the Boston Chapter of American Statistical Association
  Location: Boston University, MA
- Co-organizer and host, ASA BOW DataFest 2020
  BOW (Babson College, Olin College, and Wellesley College)
- Committee member, Statistics Education Committee 2018-present
  Boston Chapter of American Statistical Association (BCASA)
- Co-organizer and host
  The 23rd and 24th New England Isolated Statisticians Meeting 2018, 2019
- Co-organizer, ASA BOW DataFest 2017-2018
  BOW (Babson College, Olin College, and Wellesley College)
- Institutional liaison for StatFest 2018
- AMS committee representative 2017-2020
  American Mathematical Society, AMS-ASA-MAA-SIAM Joint Data Committee
- Judge for the Undergraduate Class Project Competition 2016
  Consortium for the Advancement of Undergraduate Statistics Education
  American Statistical Association
- Judge for Five-College DataFest Competition, UMass Amherst 2015
- Docent, 2014 Joint Statistical Meetings 2014
- Volunteer, Women in Statistics Conference 2014

Affiliations

- American Statistical Association
- International Chinese Statistical Association
- Institute of Mathematical Statistics
- American Mathematical Society