

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 <i>Dissertation: Investigation of topics in U-statistics and their applications in risk estimation and cross-validation</i>
	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
Academic Appointments	Associate Professor of Statistics (tenured) 09/2020 – Present Department of Mathematics & Statistics Wellesley College
	Assistant Professor of Statistics (tenure-track) 07/2016 – 08/2020 Department of Mathematics & Statistics Wellesley College
	Assistant Professor of Mathematical Sciences (tenure-track) 07/2015 – 06/2016 Department of Mathematical Sciences Bentley University
	Assistant Professor of Statistics (tenure-track) 07/2012 – 06/2015 Department of Mathematics & Statistics Williams College
Publications	Peer-Reviewed Journals: 1. Z. Chen* and Q. Wang (2025). An improved two-stage binary relevance algorithm for multilabel classification. <i>Journal of Applied Statistics</i>. DOI: 10.1080/02664763.2025.2567977 2. M. Ordal* and Q. Wang (2025). Enhancing diversity and improving prediction performance of subsampling-based ensemble methods. <i>Stats</i>, 8(4): 86. DOI: 10.3390/stats8040086 3. Q. Wang and X. Cai (2025). A new perspective on U-statistic variance estimation. <i>Stat</i>, 14 (2), e70070. DOI: 10.1002/sta4.70070 4. S. Ning, A. Hussain*, and Q. Wang (2024). Incorporating connectivity among internet search data for enhanced influenza-like illness tracking. <i>PLoS ONE</i> 19(8): e0305579. DOI: 10.1371/journal.pone.0305579 5. J. Hu*, M. DeSimone*, and Q. Wang (2024). Utilizing latent connectivity among mediators in high-dimensional mediation analysis. <i>Stat</i>, 13(2), e675. DOI: 10.1002/sta4.675 6. X. Cai, Q. Wang, and Y. Zhu (2023). Mediation analysis with latent factors using simultaneous group-wise and parameter-wise penalization. <i>Stat</i>, 12(1), e630. DOI: 10.1002/sta4.630

*: student co-authors.

7. 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: 10.1080/26939169.2023.2231065
8. 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: 10.4995/HEAD23.2023.16871
9. A. Zambom and Q. Wang (2023). Testing independence between discrete random variables. *Communications in Statistics–Theory and Methods*, 52(3): 956-971. DOI: 10.1080/03610926.2021.1934026
10. 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: 10.1080/00949655.2022.2081969
11. A. Zambom, Q. Wang, and R. Dias (2022). A basis approach to surface clustering. *Statistics, Optimization, and Information Computing*, 10(2): 339-351. DOI: 10.19139/soic.v10i2
12. Q. Wang and X. Cai (2021). An efficient variance estimator for cross-validation under partition-sampling. *Statistics*, 55(3): 660-681. DOI: 10.1080/02331888.2021.1943393
13. 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: 10.1002/sim.8725
14. 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: 10.1080/10691898.2020.1799727
15. Q. Wang (2020). Lindsay, Bruce G. *Wiley StatsRef: Statistics Reference Online*, DOI: 10.1002/9781118445112.stat08239.
16. 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.
17. 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.
18. 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.
19. 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.
20. Y. Wu* and Q. Wang (2019). Improving multi-label classification via heterogeneous ensemble methods, *Involve, a journal of mathematics*, 12(6):1035-1050.
21. Q. Wang and D. Zhao* (2019). Penalization with group-wise sparsity: econometric applications to eBay Motors online auctions. *Empirical Economics*, 57(2): 683-704.
22. 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.
23. Q. Wang (2017). Extrapolation techniques in U -statistic variance estimation. *Communications in Statistics–Theory and Methods*, 46(17): 8387-8400.
24. J. Warner*, O. Dobromyrova*, D. Shay*, and Q. Wang (2017). Deeper pockets, deeper pleasure? *Significance* April issue: 34-37.
25. Q. Wang and B. G. Lindsay (2015). Improving cross-validated bandwidth selection using subsampling-extrapolation techniques. *Computational Statistics & Data Analysis*, 89: 51-71.

*: student co-authors.

26. Q. Wang and S. Chen* (2015). A general class of linearly extrapolated variance estimators. *Statistics & Probability Letters*, 98: 29-38.
27. 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.
28. V. Le* and Q. Wang (2014). Robust thresholding for Diffusion Index forecast. *Economics Letters*, 125: 52-56.

Invited Book Reviews:

29. Q. Wang (2025). Foundations of Data Science with Python: by John M. Shea. *The American Statistician*, 79(2), 286. DOI: 10.1080/00031305.2025.2458850
30. Q. Wang (2020). Multivariate Kernel Smoothing and Its Applications: by José E. Chacón and Tarn Duong. *Journal of the American Statistical Association*, 115(529): 486. DOI: 10.1080/01621459.2020.1721247

Other Publications:

31. Q. Wang (2015). Extrapolated variance estimators. *2015 Proceedings of the Joint Statistical Meetings*, Section on Nonparametric Statistics, Alexandria, VA: American Statistical Association, 3532-3545.
32. 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.
33. 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:

34. F. M. Jimenez* and Q. Wang (2022). “aucvar”: a R package for variance estimation of AUC. DOI: 10.5281/zenodo.7071862

Work Submitted (not yet accepted):

35. Q. Wang and X. Cai (2025). Covariance matrix estimation of multivariate U -statistics with applications (*under review after invited major revision*).

Ongoing Projects

- A. Zambom and Q. Wang
Project Title: Nonparametric testing and variable selection for ARCH-X model
- Q. Wang, Y. Zhao, and T. Zhang
Project Title: Jackknife empirical likelihood for infinite-order U -statistics with applications to subsampling-based ensemble methods

Teaching Experience

Courses taught at Wellesley College

STAT 101 (Elementary Applied Statistics)
 STAT 160 (Fundamentals of Statistics)
 STAT 218** (Introductory Statistics and Data Analysis)
 STAT/MATH 220 (Probability)
 STAT 228** (Multivariate Data Analysis)
 STAT 318** (Regression Analysis and Statistical Models)
 DS 340H⁺ (Data Science Capstone)
 MATH 360/370 (Senior Thesis)

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 that were proposed and developed by me.

+ : this course was co-proposed and designed by all data science faculty.

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

Part-time Assistant

08/2005-07/2007

Scottish Development International,
 Beijing Representative Office, Beijing, China

**Honors Theses
Supervised****Department of Mathematics & Statistics, Wellesley College**

Thesis advisor for the following honors theses:

- Leah Valentiner '26, Wellesley College
 Thesis title: "Simultaneous parameter-wise and group-wise regularization with overlapping groups"
- Maria Yokochi Ordal '25, Wellesley College
 Thesis title: "Investigating the role of diversity and alternative subsampling schemes on the prediction performance of subsampling-based ensemble methods"
- Ziyue (Cherith) Chen '24, Wellesley College
 Thesis title: "An improved two-stage binary relevance method for multi-label classification"
- 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 honors visitor for the following honors thesis:

- Gabriella Karcz '25, Wellesley College
 Thesis title: "The role of key courtship behaviors and female choice in promoting hybridization between introduced and endemic weevils (Coleoptera: Curculionidae) of the Galápagos Islands"
- Brooke Perreault '24, Wellesley College
 Thesis title: "Measuring and evaluating the localness of Google search results in the context of the 2022 US midterm elections"
- 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 Mathematics & Statistics, 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

- Research Project 2022-2024
Research Students: Marley DeSimone '24 and Amy Hu '25
Topic: variable selection in high-dimensional mediation analysis
This two-year project is supported by the Wellesley Science Center Brachman Hoffman Small Grants.
- Independent Study (data science capstone project) Fall 2023
Student: Victoria Lu '24
- 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)

- * Second place winning project for USCLAP Fall 2024
 Project title: Diagnosing Specific Language Impairment In Children
 Students: Hsi Liu-Er '26 and Yildiz Derinkok '25

- * Third place winning project for USCLAP Fall 2024
 Project title: "Community Factors On Violent Crime Rates"
 Students: Nimo Mohamud '25 and Song Hoang '25

- * Third place winning project for USCLAP Fall 2023
 Project title: "Risk Factors for College Drop-Out"
 Students: Caroline Jung '25 and Tayea Rogers '25

- * 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 Sinclair Schuetze '23

- * Honorable mention project for USCLAP Spring 2022
 Project title: "Male Fertility Analysis: Identifying Significant Variables And Pre-
 dicting 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

- * 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 Tanner Conference, Wellesley College

Talks Supervised

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

- Andrea Tang '28
 Title: "Cancer type prediction using machine learning classifiers and patient gene
 expression"

Ruhlman Conference, Wellesley College

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

- Maria Ordal '25
Title: "Effects of diversity on accuracy of subsampling-based ensemble predictions"
- Ziyue (Cherith) Chen '24
Title: "An improved two-stage binary relevance algorithm for multilabel classification"
- Veeksha Mandu '22
Title: "Trends in cost of childcare in Washington state"
- Yujie (Victoria) Wu '18
Title: "Multi-label super learner"

Department of Mathematics & Statistics, Wellesley College

- Yujie (Victoria) Wu '18
Title: "Support vector machine and its applications".

Department of Mathematics & Statistics, 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

"Assessing the prediction performance of subsampling-based ensemble methods."
The 11th International Forum on Statistics, Renmin University, Beijing, China 07/2025

"Jackknife empirical likelihood for infinite-order U-statistics with applications"
Department of Mathematics and Statistics Colloquium 04/2025
University of New Hampshire, NH, USA

"An improved two-stage binary relevance method for multilabel classification"
Guest lecture of STAT 355 (Multivariate Statistical Analysis) 10/2024
Williams College, MA, USA

"Jackknife empirical likelihood for assessing variability of infinite-order U-statistics with applications to ensemble methods"
Special session on "Innovative statistical learning methods for complex data"
7th International Conference on Econometrics and Statistics, Beijing, China 07/2024

"Active-Learning Class Activities and Shiny Applications for Teaching Support Vector Classifiers"
Journal of Statistics and Data Science Education/CAUSE Webinar Series 03/2024

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

"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 Colloquium 10/2020
 University of North Carolina-Greensboro, NC, USA

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

“Improving multilabel classification via heterogeneous ensemble methods”
 Department of Mathematics and Statistics Colloquium 02/2020
 Vassar College, NY, USA

“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 Borders conference, Waltham, MA 04/2016

<i>“Assessing the precision of an unbiased estimator”</i>	
Department of Mathematics, Wellesley College	02/2016
<i>“Finding the best model using a U model selection tool”</i>	
Department of Mathematical Sciences, Bentley University	01/2015
<i>“An improved method in bagging cross-validation with second-order extrapolation”</i>	
Department of Statistics, School of Mathematical Sciences, Beijing Normal University, Beijing, China	06/2014
<i>“How does the eruption time of the Old Faithful geyser vary?”</i>	
Department of Mathematics and Statistics, Colby College	10/2013
<i>“Subsampling and extrapolation techniques in kernel density estimation”</i>	
The 2nd Taihu International Statistics Forum, Suzhou, China	07/2013
<i>“Cross-validation and a U model selection tool”</i>	
The 4th IMS-China International Conference, Chengdu, China	07/2013
<i>“Topics in U-statistics and risk estimation”</i>	
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:

<i>“Jackknife empirical likelihood for quantifying variability of infinite-order U-statistics”</i>	
IMS International Conference on Statistics and Data Science	12/2023
Lisbon, Portugal	
<i>“Online repository for facilitating teaching and learning of statistical modeling courses”</i>	
9th International Conference of Higher Education Advances	06/2023
Valencia, Spain	
<i>“Quantifying uncertainty of subsampling-based ensemble methods under a U-statistic framework”</i> (virtual presentation)	
14th International Conference on Computational and Methodological Statistics	12/2021
London, United Kingdom	
<i>“Pseudo-kernel method in assessing cross-validated risk”</i>	
The 2018 Joint Statistical Meetings (Vancouver, Canada)	
<i>“Extrapolation techniques in U-statistic variance estimation”</i>	
The 2015 Joint Statistical Meetings (Seattle, WA)	
<i>“A class of linearly extrapolated variance estimators”*</i>	
The 2014 Joint Statistical Meetings (Boston, MA)	
<i>“Time-series forecasting with large number of predictors”*</i>	
The 2014 Joint Statistical Meetings (Boston, MA)	
<i>“An improved bagging cross-validation method with second-order extrapolation in bandwidth selection”</i>	
The 2014 Joint Statistical Meetings (Boston, MA)	
<i>“Two-stage subsampling-extrapolation techniques in bandwidth selection”</i>	

*: student presentation.

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)

“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

- Faculty Awards (travel grant) 2024
- Faculty Awards (summer research) 2024
- Educational Research & Development grant, Wellesley College 2024
- 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)
 - The second place winning class project Fall 2024
 - The third place winning class project Fall 2024
 - The third place winning class project Fall 2023
 - Honorable mention winning class project Spring 2023
 - The first place and honorable mention winning class projects Spring 2022
 - Honorable mention winning class project Fall 2019
 - The third place winning research project Fall 2019
 - The second place winning class project Spring 2019
 - The third place & honorable mention winning class projects Fall 2018

	– The first place winning class 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 (intern at Beijing No.4 High School)	2006
	• University academic fellowships, Beijing Normal University	2003-2007
Journal Refereeing	• Journal of Statistical Computation and Simulation	2024, 2025
	• Computational Statistics & Data Analysis	2024, 2025
	• International Journal of Biostatistics	2024
	• Electronic Journal of Statistics	2023, 2024
	• Journal of Statistics and Data Science Education	2023, 2024
	• Stat	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
Invited Reviewer	• Book reviewer for a data science textbook Publisher: Chapman & Hall/CRC Press	2024
	• Book reviewer for a probability textbook Publisher: Taylor & Francis Group	2022
	• Grant reviewer for Swiss National Science Foundation	2019, 2020
	• Mathematical Reviews (8+ articles)	2017-present
	• Book reviewer for a statistics textbook Publisher: CRC Press, Taylor & Francis Group.	2017

**College and
Departmental
Service**

Wellesley College

- International first-year mentor 2025-2026
- Fall academic fair 2023-2025
- Statistics visitor hiring committee, mathematics department Fall 2024
- Committee member
Career Education Advisory committee 2024-2027
- Math department faculty colloquium organizer 2024-2025
- 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
- Advisor of data science major 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, Invited Session on Recent Advances in Nonparametric Estimation and Inference, 2025 ICSA China Conference 2025
Location: Zhuhai, China
- Co-organizer, Student Research Symposium on Statistics and Data Science 2024
Sponsored by the Boston Chapter of American Statistical Association
Location: Boston University, MA
- 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 Curriculum 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

- International Chinese Statistical Association
- Institute of Mathematical Statistics