Bledar Alex Konomi

Division of Statistics & Data Sciences
Department of Mathematical Sciences
French Hall, University of Cincinnati
Ohio, US

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website: https://researchdirectory.uc.edu/p/konomibr

Professional Employment

Associate Professor, Division of Statistics & Data Sciences, Department of Mathematical Sciences, University of Cincinnati, Ohio, USA, **August 2020 to present**

Assistant Professor, Division of Statistics & Data Sciences, Department of Mathematical Sciences, University of Cincinnati, Ohio, USA, **August 2014 to August 2020**

Postdoctoral Associate, Division of Computational Mathematics, Pacific Northwest National Laboratory, Richland, Washington State, USA **October 2011 to July 2014**

Education

Texas A&M University, College Station, Texas, USA.

Ph.D., Department of Statistics, **Dec. 2011**,

- Thesis Topic: *Bayesian Spatial Modeling of Complex and High Dimensional Data*
- Advisor: Professor Bani Mallick & Professor Huiyan Sang.

Athens University of Economics and Business, Greece.

B.S., Department of Statistics, **2001-2005**, with 1st class honors,

- Honors: Summa Cum Laude, First Student at University Level.
- Honors: Outstanding Student Award from State Scholarships Foundation (IKY), 2001-2005.

Research Interests

Bayesian modeling methodology, statistical computing, uncertainty quantification, spatial statistics, Monte Carlo inference, machine learning techniques, image analysis, & stochastic optimization.

Grants

09/01/2021 – 09/01/2025, NSF "Collaborative Research: Inference and Uncertainty Quantification for High Dimensional Systems in Remote Sensing: Methods, Computation, and Applications", Role Co-PI, $280,000 (equal share and responsibility to PI).

06/01/2020 – 08/01/2020 NASA, Jet Propulsion Laboratory (JPL) "Large-Scale Multivariate Spatial Modeling for Uncertainty Quantification for AIRS Mission", Role PI, $48,800.

06/01/2016 – 09/01/2016 Taft Summer Research Grant, "Nonseparable multi-output Gaussian process emulator with full scale approximation", Role PI, $8,000.

Publications

* PhD Students ** Postdoctoral researcher supervise

Refereed Publications

25. Rory Samuels*, Nimrod Carmon, **Bledar Konomi**, Jonathan Hobbs, Amy Braverman, Dean Young, and Joon Jin Song, "Estimation of Impact Ranges for Functional Valued Predictors" ***Environmetrics***, 36 (5) e70024, **2025**. https://doi.org/10.1002/env.70024

24. E. H. Gyamfi*, **B. A. Konomi**, Guang Lin, and E. L. Kang "Enhancing Gaussian Process for Surrogate Modeling: A Review of Dimension Reduction Techniques for Input Variables", Edited by: Murali Haran, Derek Bingham, Jeremy Oakley and Bruno Sanso, In press at ***Statistics and Data Science Books, Chapman & Hall/CRC***, **2025**.

23. Si Cheng*, **B. A. Konomi**, and E. L. Kang "Recursive Nearest Neighbor Co-Kriging Models for Big Multiple Fidelity Spatial Data Sets", ***Environmetrics***, 35 (4), e2844, **2024**, link.

22. **B. A. Konomi**, E. L. Kang, A. Almomari*, and J. Hobbs,"Bayesian Co-kriging Model for Remote Sensing Measurements with Different Quality Flags: Uncertainty Quantification in NASA's AIRS Mission", ***Journal of Agricultural, Biological and Environmental Statistics (JABES)***, **28**, 423–441, **2023**, link.

21. P. Ma*, G. Karagiannis, **B. A. Konomi**, T. Gasher, G. Toro, "Multifidelity Computer Model Emulation with High-Dimensional Output: An Application to Storm Surge", ***Journal of the Royal Statistical Society: Series C***, 71(4), pages 861-883, **2022**, doi/10.1111/rssc.12558.

20. W. Chang, **B. A. Konomi**, G. Karagiannis, Y. Guan, M. Haran, "Ice Model Calibration Using Semi-continuous Spatial Data", ***Annals of Applied Statistics***, **16** (3), pages 1937-1961, **2022** link.

19. J. H. Miller, B. E. Crowley, D. C. Fisher, R. Second, **B. A. Konomi** "Male mastodon landscape use changed with maturation", ***Proceedings of the National Academy of Sciences of the United States of America (PNAS)***, 119 (25), e2118329119, **2022**, https://doi.org/10.1073/pnas.2118329119. *The paper has been featured in the mainstream media such as: New York Times, the Atlantic, Atlas Obscura, Discover magazine, and All Things Considered (NPR). You can also find write-ups in the Economist and Gizmodo*.

18. Si Cheng*, **B. A. Konomi**, J. Matthews, G. Karagiannis, and E. Kang "Hierarchical Bayesian Multifidelity Nearest Neighbor Gaussian Process Models; An Application to Intersatellite Calibration", ***Spatial Statistics***, **44**, pages 100516, **2021**, https://doi.org/10.1016/j.spasta.2021.100516.

17. P. Ma*, A. Mondal, **B. A. Konomi**, J. Hobbs, J. Song, E. L. Kang, "Statistical Emulation for High-Dimensional Functional Outputs in Large-Scale Observing System Uncertainty Experiments", ***Technometrics***, 65-79, **2021**, https://doi.org/10.1080/00401706.2021.1895890.

16. **B. A. Konomi** and G. Karagiannis "Bayesian analysis of Multifidelity Computer Models with Local Features and Non-nested Experimental Designs: Application to the WRF model", ***Technometrics***, **63**, 510-522, **2021**, https://doi.org/10.1080/00401706.2020.1855253.

15. **B. A. Konomi**, A. A. Hanandel*, P. Ma*, and E. L. Kang, "Computationally Efficient Nonstationary Nearest Neighbor Gaussian Process Models Using Data-driven Techniques", ***Environmetrics***, env.2569, **2019**, link.

14. P. Ma*, **B. A. Konomi**, and E. L. Kang, "An Additive Gaussian Process Approximation for Large Spatio-Temporal Data", ***Environmetrics***, env.2571, **2019**, https://doi.org/10.1002/env.2569.

13. G. Karagiannis, **B. A. Konomi**, and G. Lin, "On the Bayesian calibration of expensive computer models with input- dependent parameters", ***Spatial Statistics***, **34**, 100258, **2019**, link.

12. H. Shi*, E. L. Kang, **B. A. Konomi**, K. Vemaganti, and S. Madireddy, "Uncertainty Quantification Using the Nearest Neighbor Gaussian Process", ***New Advances in Statistics and Data Science. ICSA Book Series in Statistics***. Springer, Cham, **2017**. (**peer reviewed**).

11. **B. A. Konomi**, G. Karagiannis, K. Lai and G. Lin, "Bayesian Treed Calibration: an application to carbon capture with AX sorbent". ***Journal of American Statistical Association (JASA)*,112**, 37–53, **2017**, https://doi.org/10.1080/01621459.2016.1190279.

10. G. Karagiannis, **B. A. Konomi**, and G. Lin, "Parallel and interacting stochastic approximation annealing algorithms for global optimisation". ***Statistics and Computing***, **27**, 927–945, **2017**, link.

9. B. Zhang*, **B. A. Konomi**, H. Sang and G. Lin, "Full scale multi-output Gaussian process emulator with nonseparable auto-covariance functions", ***Journal of Computational Physics***, **300**, 623–642, **2015**.

8. **B. A. Konomi**, G. Karagiannis and G. Lin,"On Bayesian Treed Multivariate Gaussian Process with Linear Model of Coregionalization", ***Journal of Statistical Planning and Inference***, **157-158**, 1-15, **2015**.

7. G. Karagiannis, **B. A. Konomi** and G. Lin "A Bayesian mixed shrinkage prior procedure for spatial stochastic basis selection and evaluation of gPC expansions: Applications to elliptic SPDEs", ***Journal of Computational Physics***, **284**, 528–546, **2015**.

6. **B. A. Konomi** and G. Lin,"Low-Cost Multi-output Gaussian Process with Application to Computer Codes", ***International Journal for Uncertainty Quantification***, **5**, 375-392, **2015**.

5. **B. A. Konomi**, G. Karagiannis, A. Sarkar, X. Sun and G. Lin, "Bayesian Treed Multivariate Gaussian Process with Adaptive Design: Application to a Carbon Capture Unit", ***Technometrics***, **56**, 145-158, **2014**.

4. **B. A. Konomi**, H. Sang and B. K. Mallick, "Adaptive Bayesian nonstationary modeling for large spatial datasets using covariance approximations", ***Journal of Computational and Graphical Statistics***, **23**, 802–829, **2014**.

3. J. Coble, G. Lin, **B. A. Konomi**, P. Ramuhalli. "Accurate uncertainty quantification to support online sensor calibration monitoring", ***Transactions of the American Nuclear Society***, **109**, 429–431, **2013**.

2. I. Bilionis*, N. Zabaras, **B. A. Konomi**, and G. Lin,"Multi-output separable Gaussian process: Towards an efficient, fully Bayesian paradigm for uncertainty quantification", ***Journal of Computational Physics***, **241**, 212–239, **2013**.

1. **B. A. Konomi**, S. Dhavala, J. Huang, S. Kundu, D. Huitink, H. Liang, Y. Ding, and B. K. Mallick, "Bayesian object segmentation and classification of gold nano-particles", ***Annals of Applied Statistics***, **7**, 640–668, **2013**, https://doi.org/10.1214/12-AOAS616.

Submitted/Under Revision Papers

4. E. H. Gyamfi*, E. L. Kang, and **B. A. Konomi**, "A Fully Bayesian Framework for Built-in Input Dimension Reduction and Gaussian Process Modeling", Submitted to ***SIAM / ASA Journal on Uncertainty Quantification (JUQ)***.

3. Stamatina Lamprinakou**, Huiyan Sang, **B. A. Konomi**, and L. Lu "Spatial nonparametric regression with adaptively smoothed and non-separable covariate and spatial effects" Submitted to **Journal of Computational and Graphical Statistics**.

2. Gang Yang*, **B. A. Konomi**, Jon Hobbs, and E. L. Kang, "Computationally Efficient Data Driven Statistical Emulation for Large-Scale Remote Sensing Observing System", Under first Revision ***SIAM / ASA Journal on Uncertainty Quantification (JUQ)***.

1. Rachel Laker**, **B. A. Konomi**, Q. Hua, A. H. Gunderson and J. H. Miller, "Overcoming the bomb-spike: High-precision 20th century radiocarbon dating using Suess-enhanced calibration", Submitted to ***Science Advance***.

Other Publications

2. P. Ramuhalli, G. Lin, SL. Crawford, **B. A. Konomi**, B. Braatz, J. Coble, B. Shumaker, and H. Hashemian. Uncertainty Quantification Techniques for Sensor Calibration Monitoring in Nuclear Power Plants. PNNL-22847 Rev. 0, *Pacific Northwest National Laboratory, Richland, WA*, **2013**.

1. **B. A. Konomi**, Bayesian spatial modeling of complex and high dimensional data. *Texas A&M University*, **2011**.

Working Papers

1. K. Richards*, G. Karagiannis, **B. A. Konomi**, and H. Sang "Bayesian Spanning Treed Gaussian Process for Multilevel High-Dimensional Output Simulators", Finalized: To be Submitted.

2. Lora Newman*, **B. A. Konomi**, and Yanyu Xiao, "Calibrating the Transmission of Chlamydia Trachomatis using Binomial Spatio-temporal data", Finalized.

3. Hancheng Li*, **B. A. Konomi**, and E. L. Kang, "Bayesian Multifidelity Transport Maps for Large Spatial Fields".

4. **B. A. Konomi**, Rachel Laker**, and J. H. Miller, "A Multifidelity model for Bayesian carbon dating: An application to ^{13}C and ^{14}C Caribou Antler measurements".

5. Gaurav Atreya*, **B. A. Konomi**, and Patrick Ray, "Bayesian Calibration of Network Based River Computer Models".

6. Chagi Weerakoon*, **B. A. Konomi** "Adaptive Decision Trees for Non-separable Emulators".

7. Mary Clarke*, **B. A. Konomi** "Random Forests for dependent Longitudinal Data".

8. Stamatina Lamprinakou**, Huiyan Sang, **B. A. Konomi**, and L. Lu "Bayesian Optimization with Conformal Bayesian Model Averaging (CBMA) Using an Ensemble of Surrogate Models".

Advising/Mentoring

Students PhD Advisor

2015-2017 **Ahmad Ali Hanandeh** (Joint with Emily Kang), PhD 2017 University of Cincinnati, *Nonstationary Nearest Neighbors Gaussian Process Models*, position after PhD: Assistant Professor at Yarmouk University, Jordan.

2015-2018 **Pulong Ma** (Joint with Emily Kang), PhD 2018 University of Cincinnati, *Hierarchical Additive Spatial and Spatio-Temporal Process Models for Massive Datasets*, **Supported by JPL NASA Grant** Position after PhD: Postdoctoral Fellow at SAMSI/ Duke University. Now: Assistant Professor, School of Mathematical and Statistical Sciences, Clemson University.

2017-2020 **Si Cheng**, PhD 2020 University of Cincinnati, "Nearest Neighbor co-kriging Gaussian Processes", position after PhD: senior statistician at BeiGene, Biotechnology company.

2018-2020 **Seth Bennett**, PhD Candidate 2019 University of Cincinnati, "Sensitivity Analysis for in Continuous and Semi-continuous Large Outputs", position pre-phd: Biostatistician at CTI Clinical Trial & Consulting Services.

2023-present **Hancheng Li** (Joint with Emily Kang), in-candidacy PhD Student, "Bayesian Inverse Problems for UQ in Remote Sensing in the Presence of Big Data". **RA: Supported by NSF & JPL NASA Grant**.

2024-present **Kyle Mann**, PhD Student, "Deep Gaussian Processes for Multivaraite and Multifidelity Data Sets".

2024-present **Chagi Weerakoon**, before-candidacy PhD Student, "Semi-multivariate Bayesian Tree Calibration of Computer Models".

2024-present **Mary Clarke**, before-candidacy PhD Student, "Nonstationary Gaussian Linear Mixed Effects Mode for Real-time Monitoring of Rapid Disease Progression". **RA: Supported by Cincinnati Children's Hospital Grant related to her PhD project**.

2025-present **Zimo Han**, before-candidacy PhD Student.

Supervised PhD Students Projects at University of Cincinnati (Not as the PhD Advisor)

2025-present **Gaurav Atreya**, PhD Student in Environmental Engineering – HydroSystems (Advisor Patrick Ray), Collaborative Project with me:" Bayesian Calibration of Network Based River Data Analysis and Visualization using a Novel Tool".

2023-present **Lora Newman**, PhD Student in Applied Mathematics (Advisor Yanyu Xiao), Collaborative Project with me: "Calibrating the Transmission of Chlamydia Trachomatis using Binomial Spatio-temporal data".

2023-present **Eric Herrison Gyamfi** Statistics, PhD Student in Statistics (Advisor Emily Kang), Collaborative Project with me: "A new Build in Dimension Reduction for Regression and Gaussian processes".

2023-present **Gang Yang** Statistics, PhD Student in Statistics (Advisor Emily Kang), Collaborative Project with me: "Emulators and Uncertainty Quantification for High Dimensional Complex Models with Applications in Remote Sensing".

2020-2021 **Ayat Almomani** Statistics, PhD Student in Statistics (Advisor Hang Kim), Collaborative Project with me: "Large-Scale Multivariate Spatial Modeling for Uncertainty Quantification for AIRS Mission". (**Supported salary (**$06/01/20 - 08/01/2020$**) by NASA, Jet Propulsion Laboratory (JPL) Grant**)

PhD Committee

2025-present **Gaurav Atreya**, PhD Student in Environmental Engineering – HydroSystems.

2024-present **Shixuan Wang**, Mathematical Sciences, University of Cincinnati.

2023-present **Eric Herrison Gyamfi**, Mathematical Sciences, University of Cincinnati.

2021-2024 **Ayesha Kumari Ekanayaka Katugoda Gedara**, Mathematical Sciences, University of Cincinnati.

2022-2024 **Rohit Singh**, Computer Sciences, University of Cincinnati.

2020-2023 **Gang Yang**, Mathematical Sciences, University of Cincinnati.

2020-2023 **Tzu-Chun Wu**, Mathematical Sciences, University of Cincinnati.

2017-2019 **Jiaqi Zhang**, Quantitative & Mixed Methods Research Methodology, School of Education College of Education, Criminal Justice, and Human Services, University of Cincinnati.

2017-2020 **Huibin Weng**, Department of Business and Economics, University of Cincinnati.

2016-2018 **Ermah Gecili**, Mathematical Sciences, University of Cincinnati.

2015-2017 **Hongxiang Shi**, Mathematical Sciences, University of Cincinnati.

2015-2017 **Ren Sheng**, Mathematical Sciences, University of Cincinnati.

Supervised PostDoc Students Projects

2023-2025 , Texas A&M University “Bayesian Spanning Treed Gaussian Process for Multilevel High-Dimensional Output Simulators"

2022-2024 , University of Cincinnati “Bayesian Spanning Treed Gaussian Process for Multilevel High-Dimensional Output Simulators"

Supervised Bachelor Students Capstone Projects

Spring 2023 **Drew Stierwalt** “Bayesian Hierarchical Model for Neighborhood Poverty in Hamilton County, Ohio".

Spring 2023 **Jiali Sun** “Fitting Ozone Data with Gaussian Process Regression".

Summer 2022 **Chenyun Shi** “Statistical and Deep Learning Methods for High Dimensional Models in Remote Sensing".

Summer 2016 **Austin Aten** and **Ryan Maloney** “University of Cincinnati Housing Data Analysis".

Summer 2015 **Jenna Stanton** “Regression Analysis of the L0 trigger for the LHCb Experiment".

Supervisor for Master Students

Rui Huang (2020), Yun Wei (2022), Xin Wu (2023), Shukurat Rahmon (2025), Adriana Gonzalez Sanchez (2025) etc.

Teaching Experience

University of Cincinnati *: denote new courses introduced at University of Cincinnati

Fall 2025

STAT 6032 - Applied Regression Analysis (Graduate)

STAT 7020 - Special Topics in Statistics: Statistical Surrogates (Graduate)

Spring 2025

STAT 6043/5143 - Applied Bayesian Analysis (Undergraduate/Graduate)
STAT 8025 - Spatial Statistics (Graduate)

Fall 2024

STAT 4131 - Regression Analysis & Statistics (Undergraduate)
STAT 6031 - Applied Regression Analysis (Graduate)

Spring 2024

STAT 6043/5143 - Applied Bayesian Analysis (Undergraduate/Graduate)
STAT 8024 - Advanced Statistical Modeling (Graduate)

Fall 2023

STAT 4131 - Regression Analysis & Statistics (Undergraduate)
STAT 7020* - Topics in Applied Statistics: Statistical Surrogates (Graduate)

Spring 2023

STAT 2037 - Probability and Statistics II (Undergraduate)
STAT 6043/5143 - Applied Bayesian Analysis (Undergraduate/Graduate)

Fall 2022

STAT 2037 - Probability and Statistics II (Undergraduate)
STAT 6045/5145 - Statistics Computing with R and SAS (Graduate/Undergraduate)

Spring 2022

STAT 1031 - Introduction Statistics (Undergraduate)
STAT 6043/5143 - Applied Bayesian Analysis (Undergraduate/Graduate)

Fall 2020

STAT 2037 - Probability and Statistics I (Undergraduate)
STAT 6045/5145 - Statistics Computing with R and SAS (Graduate/Undergraduate)

Fall 2020

STAT 2037 - Probability and Statistics I (Undergraduate)
STAT 6045/5145 - Statistics Computing with R and SAS (Graduate/Undergraduate)

Spring 2020

STAT 2037 - Probability and Statistics I (Undergraduate)
STAT 3038 - Probability and Statistics II (Undergraduate)

Fall 2019

STAT 8022 - Advance Bayesian Analysis (Graduate) *Redesign martial and and topics*
STAT 6045/5145 - Statistics Computing with R and SAS (Graduate/Undergraduate)

Spring 2019

STAT 6045/5145 - Statistics Computing with R and SAS (Graduate/Undergraduate)

STAT 6071/5171* - Statistical Machine Learning (Graduate/Undergraduate) *Developed new Graduate course*

Spring 2018

STAT 6032/5132 - Applied Statistics II (Graduate/Undergraduate)

STAT 2037 - Probability and Statistics I (Undergraduate)

Fall 2017

STAT 6045/5145 - Statistics Computing with R and SAS (*Redesign new course Graduate/Undergraduate*)

STAT 2037 - Probability and Statistics I (Undergraduate)

Spring 2017

STAT 6045/5145 - Statistics Computing with R and SAS (*Redesign new course Graduate/Undergraduate*)

STAT6043 - Applied Bayesian Analysis (Graduate)

Spring 2016

STAT 8045 - Advance Statistical Modeling (Graduate)

Fall 2015

STAT 2037 - Probability and Statistics I (Undergraduate)

STAT 7020 - Pattern Recognition and Machine Learning (*Developed new Graduate course*)

Spring 2015

STAT 3038 - Probability and Statistics II (Undergraduate)

Fall 2014

STAT 3038 - Probability and Statistics II (Undergraduate)

STAT 6021 - Mathematical Statistics I (Graduate)

Texas A&M University

STAT 302 - Statistical Methods (Undergraduate)

Summer 2011 (45 Students), Fall 2010 (35 Students)

My role: Lecturer

STAT 303 - Statistical Methods (Undergraduate)

Fall 2010 (45 Students)

My role: Lecturer

Selected Presentations Last Six Years

Talks

08/2025 Mathematical and Computational Foundations of Digital Twins *Bayesian Multifidelity Transport Maps for Computer Models with Large non-Gaussian and non-linear Spatial Output*, **Invited**.

07/2024 Digital twins for inverse problems in Earth science (Jumeaux numériques pour les problémes inverses en science de la Terre), *Bayesian spanning treed for high dimensional output emulation*, **Invited**.

08/2023 Joint Statistical Meetings, Toronto, Canada, *Statistical Emulation with Dimension Reduction for Complex Forward Models in Remote Sensing*.

06/2023 International Chinese Statistical Association, Applied Statistics Symposium, Ann Arbor, Michigan, *Bayesian spanning treed co-kriging for high dimensional output emulation*. **Invited**

10/2022 Uncertainty Quantification for Remote Sensing Inverse Problems Virtual Breakout JPL NASA Meeting, *Computational Efficient Recursive Nearest Neighbor Co-kriging Models*. **Invited**

09/2022 SIAM Conference on Mathematics of Data Science (MDS22) San Diego, California, *Computational Efficient Recursive Nearest Neighbor Co-kriging Models*. **Invited**

08/2022 Joint Statistical Meetings, Washington DC, *Computationally Efficient Algorithms for Bayesian Nearest Neighbor Co-Kriging Gaussian Processes*

04/2022 SIAM Conference on Uncertainty Quantification, Atlanta, Georgia in person, *Computationally Efficient Statistical Emulators for Complex Forward Models in Remote Sensing: An Application to the OCO-2 Mission*, **Invited**.

09/2021 International Chinese Statistical Association 2021 Applied Statistics Symposium, Virtual Presentation, *Bayesian Latent Variable Co-kriging Model for Different Quality Flagged Measurements in Remote Sensing* , **Invited**.

08/2021 The Ohio State University, Model discrepancy summit, Columbus Ohio *Modeling the Discrepancy in Remote Sensing*, **Invited**.

03/2021 Department of Mathematical and Statistical Sciences, Marquette University, US, *Computer Model Emulation with High-dimensional Functional Output in Large-scale Observing System Uncertainty Experiments: An Application to NASA's Orbiting Carbon Observatory-2 Mission*, **Invited**.

11/2020 Department of Mathematical Sciences, Durham University, UK, Virtual Presentation, *On the Bayesian Analysis of Multifidelity Computer Models*, **Invited**.

10/2020 Remote Sensing UQ Virtual Breakout Meeting, organized by NASA, Virtual Presentation, *Modeling AIRS temperature datasets*, **Invited**.

09/2020 University of Cincinnati Day at NASA Jet Propulsion Laboratory (JPL), Virtual Presentation,*On the Bayesian Analysis of Multifidelity Computer Models*, **Invited**.

07/2020 Joint Statistical Meetings, Virtual Conference, *Sequential Design of High-Dimensional Multifidelity Computer Models*

07/2019 Joint Statistical Meetings, Denver, Colorado, *Bayesian Analysis of Multifidelity Computer Models with Local Features and Non-nested Experimental Designs*, **Invited**.

06/2019 14^{th} International Meeting on Statistical Climatology, Toulouse, France, *Multi-fidelity Computer Models with Large Output*, **Invited**.

Service

Reviewer for more than 65 articles in the following journals:

Journal of American Statistical Association (JASA) (8), Technometrics (19), SIAM/ASA Journal on Uncertainty Quantification (JUQ) (10), Journal of Statistical Computation and Simulation (10), Computational Statistics and Data Analysis (6), Statistica Sinica (4), Spatial Statistics (4), Environmetrics (6), Journal of Computational Physics (2), Journal of Computational and Graphical Statistics (5), Journal of Machine Learning Research (5), Journal of Statistical Planning and Inference (2), Journal of Applied Statistics (3), International Journal of Geographical Information Science (1), Stat(2), Environmental and Ecological Statistics (1), R Journal (1), etc..

University of Cincinnati by Academic Year

2025-2026 **Chair of Internship Fellowships** for Students working at Children Hospital and P&G
Chair of the Search Committee for Tenure Track Faculty in Statistics
Committee for Qualifier Exams -Chair of Applied Statistics
Graduate Program Committee

2024-2025 **Chair of Internship Fellowships** for Students working at Children Hospital and P&G
Search Committee for Tenure Track Faculty in Statistics
Committee for Qualifier Exams -Chair of Applied Statistics
Graduate Program Committee

2023-2024 **Co-Chair of Internship Fellowships** for Students working at Children Hospital and P&G
Graduate Student Executive Committee

Committee for Qualifier Exams

2022-2023 **Chair of Internship Fellowships** for Students working at Children Hospital and P&G (this program fully support PhD 14-18 graduate students and have made possible the expansion of the UC statistics PhD program)
Graduate Student Evaluation Committee
Graduate Student Executive Committee
Search Committee for Tenure Track Faculty in Statistics
Committee for Multivariate Prelim Exam
Committee for Qualifier Exams

2021-2022 **Co-Chair of Internship Fellowships** for Students working at Children Hospital and P&G (this program fully support PhD 14-18 graduate students and have made possible the expansion of the UC statistics PhD program)
Committee on the Developing the new PhD in Statistics Degree
Committee for Multivariate Prelim Exam

2020-2021 Committee on the Developing the new PhD in Statistics Degree
Committee for Linear Models Prelim Exams
Committee hiring VAP

2019-2020 Graduate Student Evaluation Committee
Committee on the Developing the new PhD in Statistics Degree
Committee for Linear Models Prelim Exams
Committee for Qualifier Exam in Statistics

2018-2019 Graduate Student Evaluation Committee

Committee on the Developing the new Division of Statistics & Data Sciences
Committee for Linear Models Prelim Exams
Committee for Qualifier Exam in Statistics
Committee hiring VAP

2017-2018 Course coordinators for STAT2037
Committee for Linear Models Prelim Exams
Committee for Statistical Theory and Probability Prelim Exams
Committee for Qualifier Exams in Statistics
Statistics Prelim exams committee
Tenure Truck Statistics Hiring Committee

2016-2017 Committee for Linear Models Prelim Exams
Committee for Qualifier Exams in Statistics
Search Committee for Tenure Track Faculty in Statistics
Search Committee for VAP

2015-2016 Committee for Linear Models Prelim Exams
Committee for Qualifier Exams in Statistics
Search Committee for Tenure Track Faculty in Statistics
Course coordinators for STAT2037

2014-2015 Committee for Linear Models Prelim Exams
Committee for Qualifier Exams

Session Chair/Moderator

JSM Chicago 2016, JSM Philadelphia 2020, JSM Washington DC 2022.

SIAM Conference on Uncertainty Quantification 2022

Uncertainty Quantification for Remote Sensing Inverse Problems Virtual Breakout Meeting (JPS NASA) October 2020

Uncertainty Quantification in Climate Science Virtual Workshop (JPS NASA) March 2021.

Organize Workshop

Mini-symposium SIAM Conference on Uncertainty Quantification, “Surrogate Modeling for Forward and Inverse Problems in Uncertainty Quantification". Atlanta, Georgia, USA, April 12-April 15 2022.

Joint Statistical Meeting (2022), “On Surrogate Modeling of Emerging Issues in Physical and Engineering Simulators" Washington DC on August 6-11, 2022.

University of Cincinnati Day at Jet Proportion Laboratory (JPL) Workshop, September 21- September 2123 2020

Affiliations

American Statistical Association (ASA)

Section on Statistics in the Physical and Engineering Sciences (SPES)

Institute of Mathematical Statistics (IMS)