
JUNGEUM KIM

MARCH 2026

CONTACT INFORMATION

Department of Statistics
NC State University
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RESEARCH INTEREST

Statistical Uncertainty Quantification for AI, Bayesian Inference and Computation, Deep Generative Modeling, Robust Deep Learning, Bayesian Nonparametrics, Dimensional Reduction

PROFESSIONAL EXPERIENCE

NORTH CAROLINA STATE UNIVERSITY, Raleigh, USA
College of Science, Department of Statistics
Assistant Professor, 8/2025-present

UNIVERSITY OF CHICAGO, Chicago, USA
Booth School of Business
Principal Postdoctoral Researcher, 7/2022-7/2025
Mentor: Professor [Veronika Ročková](#)

EDUCATION

PURDUE UNIVERSITY, Lafayette, IN, USA
College of Science, Department of Statistics
Ph.D., Statistics, 8/2017-7/2022
Advisor: Professor [Xiao Wang](#)
Thesis: [Bridging the gap between human and computer vision in machine learning, adversarial and manifold learning for high-dimensional data.](#)

SEOUL NATIONAL UNIVERSITY, Seoul, Korea
College of Science, Department of Statistics
B.Sc., Statistics, 3/2009-2/2015
M.Sc., Statistics, 3/2015-2/2017
Advisor: Professor [Hee-Seok Oh](#)
Thesis: [A Unified Framework of Robust PCA: Use of Robust Unit Approach](#)
College of Social Sciences, Department of Social Welfare
B.Sc., Social Welfare, 3/2011-2/2015

HONORS AND AWARDS

Rising Stars in Computational and Data Sciences, 2024, Oden Institute at the University of Texas at Austin
I. W. Burr Award, 2022, Department of Statistics, Purdue University
Virgil Anderson and Gloria Fischer Graduate Fellowship, 2021, Purdue University

PUBLICATIONS

1. [Tree Bandits for Generative Bayes.](#)
[Sean O'Hagan, Jungeum Kim and Veronika Ročková](#) (2026)
Journal of the American Statistical Association (JASA)
2. [On Mixing Rates for Bayesian CART.](#)
[Jungeum Kim and Veronika Ročková](#) (2025)
Electronic Journal of Statistics (EJS)
3. [Deep Generative Quantile Bayes.](#)
[Jungeum Kim, Percy S. Zhai, Veronika Ročková](#) (2024)
The 28th International Conference on Artificial Intelligence and Statistics (AISTATS)

4. [Inductive Global and Local Manifold Approximation and Projection.](#)
Jungeum Kim and Xiao Wang (2024)
 Transactions on Machine Learning Research (TMLR)
5. [Robust Sensible Adversarial Learning of Deep Neural Networks for Image Classification.](#)
Jungeum Kim and Xiao Wang (2023)
 The Annals of Applied Statistics (AOAS), 17(2): 961-984

**SUBMITTED
WORK**

1. DANCE: Doubly Adaptive Neighborhood Conformal Estimation.
 Brandon Feng, Brian Reich,..., Jungeum Kim (2026, under review)
2. Rethinking Conformal Prediction for Binary Classification: From Impossibility to Groupwise Local Singleton-Accuracy Maximization.
Jungeum Kim, Anqi Zhao, Ke Zhu, Yich Zhang, and Shu Yang (2026, under review)
3. [Deep Bayes Factors.](#)
Jungeum Kim and Veronika Ročková (2024)
 Statistical Science (Second Round)
4. [Adaptive Uncertainty Quantification for Generative AI.](#)
Jungeum Kim*, Sean O’Hagan* and Veronika Ročková (2024)
 Journal of Machine Learning Research (Under Review) (* denotes equal contributions)

**MEDIA
HIGHLIGHTS**

1. [Brown, M., “Is ChatGPT confident about its answer or just bluffing?”](#)
 Chicago Booth Review, April 2025.
 Features research: “Adaptive Uncertainty Quantification for Generative AI”

**INVITED
SEMINAR
TALKS**

- University of North Carolina at Chapel Hill, Department of Biostatistics 3/2026
- ISBA-BNP Webinar 12/2025
- North Carolina State University, Department of Statistics 3/2025
- Duke University, Department of Statistical Science 1/2025
- Ohio State University, Department of Statistics 1/2025
- University of Wisconsin–Madison, Department of Statistics 1/2025
- University of Wisconsin–Madison, Department of Statistics 10/2023
- Auburn University, Department of Statistics 3/2023

**INVITED
CONFERENCE
TALKS**

- EcoSta Kyoto, 8/2026
- ISBA World Meeting Nagoya, 6/2026
- ICSA Applied Statistics Symposium Arlington, 6/2026
- ENAR Spring Meeting Indianapolis, 3/2026
- IMS New Researchers Conference Nashville, 7/2025
- EAC ISBA Daegu, 7/2025
- ISBA satellite Lugano, 6/2024
- Joint Statistical Meeting: Topic-Contributed Session Toronto, 8/2023
- CMStatistics, Hybrid Berlin, 12/2023
- International Statistical Institute (ISI) Ottawa, 6/2023
- Korean Statistical Society: KISS Invited Session Seoul, 6/2022

CONTRIBUTED TALKS

- Joint Statistical Meeting Portland, 8/2024
- Joint Statistical Meeting Washington D.C., 8/2022
- Symposium on Data Science and Statistics (SDSS) Pittsburgh, 6/2022
- CMStatistics Seville, 12/2016
- Korean Statistical Society Seoul, 6/2016

TEACHING EXPERIENCE

Instructor. North Carolina State University

- ST563, Introduction to Statistical Learning Fall 2025

Graduate Teacher Certificate. Center for Instructional Excellence, Purdue University, 2019

Teaching Assistant. Purdue University

- CS/STAT 24200, Introduction to Data Science 2021-2022
- STAT 19000, Data Mine 2020-2021
- STAT 695, Divide and Recombine with R-Hadoop for Big Data (Assistant instructor) 2019-2022
- STAT 51400, Design of Experiments 2018
- STAT 301, Elementary Statistical Methods (Lab instructor) 2018-2019

Teaching Assistant. Seoul National University

- Statistical Computing and Lab Fall 2016
- Statistical Lab (Lab instructor) Fall 2015
- Introduction to Statistics Spring 2015

MENTORING EXPERIENCE

Advising at North Carolina State University

- Anqi Zhao, Ph.D. student 2025-current
- Jerry Yu, Master student 2026-current

For the listed students, I collaborated on projects and provided mentoring alongside the primary mentor, Professor Veronika Ročková

- Sean O'Hagan, Ph.D. student in Statistics at the University of Chicago 2024-2025

Project title: Adaptive Uncertainty Quantification for Generative AI.

Project title: Tree Bandits for Generative Bayes.

- Percy Zhai, Ph.D. student at Booth School of Business, University of Chicago 2024

Project title: Deep Generative Quantile Bayes.

PROFESSIONAL SERVICES and ACTIVITIES

AI Committee: AI education and development committee (Statistics department, NCSU), AI committee (College of science, NCSU)

Referee Service: AOS, JASA, JRSS-B, JMLR, ICML, Journal of Financial Econometrics, AOAS, Technometrics, Computational Statistics, ICML

Organizer: Statistics Graduate Student Organization Student Seminar Coordinator (Spring 2021, Purdue University), Statistics Student Poster Seminar (Fall 2025, North Carolina State University), AI and Statistics Roundtable (Spring 2026, North Carolina State University),

Member: American Statistical Association (ASA) (2019-present), Institute of Mathematical Statistics (IMS) (2019-2023, 2025-present), International Society for Bayesian Analysis (ISBA) (2024-present)

Volunteering: Portfolio Project Mentor, [AI4ALL](#), Ignite Project, 2024 Spring