

MINJEE KIM

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EDUCATION

Texas A&M University Ph.D. in Statistics	College Station, TX [Expected Graduation: December 2026]
Texas A&M University B.S.–M.S. Fast Track Program in Statistics	College Station, TX Graduated: May 2022

PROFESSIONAL EXPERIENCE

Lubrizol Corporation <i>PhD Statistics and Data Science Internship</i>	Wickliffe, OH
<ul style="list-style-type: none">Developed and deployed credible intervals for predictive models, improving reliability of forecast.Designed repeatability and reproducibility experiments, strengthening product validation.Built predictive models linking chemical composition to transmission fluid performance to guide the data-driven product development decisions.	
Texas A&M University [Institute of Biosciences and Technology] <i>Biostatistics Research Assistant at Dr. Kurt Zhang Lab</i>	Houston, TX <i>August 2021 - May 2023</i>
<ul style="list-style-type: none">Used High-dimensional regression and clustering on DNA methylation data, identifying biomarkers linked to disease pathways.Analyzed NHANES data to reveal dietary risk factors for hypertension in pregnancy.	

RESEARCH EXPERIENCE

PhD Thesis	[Advisor: Dr. Valen Johnson]
<ul style="list-style-type: none">Bayesian latent class models for improving accuracy of disease prevalence estimates without a gold standard.Hierarchical Bayesian regression to estimate global disease prevalence for disease surveillance.Developing agent-based model validation techniques through emulation for infectious disease modeling.	
Master's Thesis	[Advisors: Dr. Shahina Rahman & Dr. Valen Johnson]
<ul style="list-style-type: none">Trained convolutional neural networks with bottleneck architectures, creating a novel high-dimensional clustering framework that improved feature separation in complex datasets.	
Undergraduate Summer Research <i>Principal Investigator: Dr. Peter Brown</i>	<i>Summer 2020</i>
<ul style="list-style-type: none">Modeled UV light curves of Type Ia supernovae, improving characterization of emission patterns using time-series statistical analysis.	
Undergraduate Summer Research <i>Principal Investigators: Dr. Shahina Rahman & Dr. Valen Johnson.</i>	<i>Summer 2019</i>
<ul style="list-style-type: none">Developed high-dimensional clustering simulations for the RJClust R package.Enabled scalability to large biological datasets.	

PUBLICATIONS

[submitted - In Revision] Gaelle Kamdjo Guela, Christopher G. Laine, Pierre Gontao, Charles Oliver Gomsu Dada, Hortense Abiba, Daniel Garcia-Gonzalez, Sonia Vection, John D. Gillece, **Minjee Kim**, Valen E. Johnson, Jeffery T. Foster, Abel Wade, Angela M. Arenas-Gamboa. Prevalence study in Cameroon identifies *Brucella abortus* as the endemic species in livestock. *Nature Communications*.

Wang, J., Zhang, W., Liu, X., **Kim, M.**, Ke, Z., Tsai, R.. Epigenome-wide analysis of aging effects on liver regeneration. *BMC Biol* 21, 30 (2023). <https://doi.org/10.1186/s12915-023-01533-1>

Peng H, Xu H, Wu J, Li J, Wang X, Liu Z, **Kim M**, Jeon MS, Zhang KK, Xie L. Maternal One-Carbon Supplement Reduced the Risk of Non-Alcoholic Fatty Liver Disease in Male Offspring. *Nutrients*. 2022; 14(12):2545. <https://doi.org/10.3390/nu14122545>

LEADERSHIP EXPERIENCE

Statistics Graduate Student Association

College Station, TX

Secretary, Workshop Organizer

September 2024 - Present

- Designed and hosted workshops to provide internship and full-time employment assistant.
- Created the "Meet the Professor" and "Meet the Alumn" series to strengthen faculty and alumni engagement.

Statistics Undergraduate Student Association

College Station, TX

President

September 2019 - May 2021

- Co-Founded the organization to promote student engagement among the undergraduates, in collaboration with the department of statistics.

TEACHING EXPERIENCE

Teaching Assistant

Texas A&M University (Department of Statistics)

Fall 2022

- Supported coursework in ANOVA, nonlinear regression, design of experiments, and
- STAT 653: STATISTICS IN RESEARCH III; STAT 312: STATISTICS FOR BIOLOGY

Peer Mentor

Texas A&M University (College of Science)

September 2019 - May 2020

- Mentored freshmen in the College of Science to increase the retention rate within the college.

CONFERENCE CONTRIBUTIONS

- **Joint Statistical Meetings**, Nashville, TN (2025). **Oral presentation:** "Bayesian Latent Class Analysis." Submitted to the American Statistical Association Biometrics Section.
- **Fall Technical Conference**, Houston, TX (2025). "Predictive Model Monitoring and Assessment in the Lubrizol Q.life Formulation Optimization System" Anja Zgodić, Philip Rocco Scinto, **Minjee Kim**, and Kevin Manouchehri.

AWARDS

Dr. Ersen Arseven 74' Scholarship

2017 - 2022

- Awarded full tuition for undergraduate and master's studies based on academic merit.

Zorich's Applied Statistics Workshop

2025

- Awarded **First Place** in the TidBit Session for a 4-minute presentation on applied statistical research.