

MINJEE KIM

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EDUCATION

Texas A&M University
Ph.D. Statistics
Advisor: Valen E. Johnson
B.S.–M.S. Fast Track in Statistics

College Station, TX
Expected May 2027

May 2022

SKILLS

R, Python, $\text{\LaTeX}$. Identifiability, Bayesian hierarchical and latent-variable models, MCMC, simulation, uncertainty propagation, experimental design.

RESEARCH

Ph.D. dissertation

Texas A&M University

Advisor: Valen E. Johnson

2022 – present

- Inference when the state is unobserved and measurements are imperfect.
- Ch. I: identifiability and Bayesian estimation of prevalence and diagnostic accuracy without a gold standard; latent-severity models; recovery simulations.
- Ch. II: propagate that posterior, with population and cost uncertainty, to a distribution over disease burden.

EXPERIENCE

Lubrizol Corporation

Wickliffe, OH

Ph.D. Statistics and Data Science Intern

Summer 2025

- Predictive models with credible intervals; R&R studies of measurement error; composition-to-performance models for R&D.

Texas A&M Institute of Biosciences and Technology

Houston, TX

Biostatistics Research Assistant

2021 – 2023

- High-dimensional methylation analysis and NHANES dietary-risk modeling; R pipelines used in the papers.

Texas A&M University

College Station, TX

Instructor, STAT 211 (Fall 2026); TA, STAT 653 and STAT 312 (Fall 2022)

- Instructor of record for undergraduate probability and inference. TA for ANOVA, nonlinear regression, and experimental design.

PUBLICATIONS

Guela et al., including **Kim, M.** and Johnson, V.E. *Nature Communications*, 2025. Prevalence of *Brucella abortus* in Cameroonian livestock. Statistical analysis.

Wang et al., including **Kim, M.** *BMC Biology*, 2023. Epigenome-wide analysis of aging and liver regeneration. Statistical analysis.

PRESENTATIONS, AWARDS, AND SERVICE

JSM oral, Bayesian latent class analysis, 2025. **Fall Technical Conference** co-author, Lubrizol Q.life monitoring, 2025.

Zorich's Applied Statistics Workshop, first place, 2025. SGSA secretary and workshop organizer, 2024–present.