MINJEE KIM

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EDUCATION

Texas A&M University   *Expected Graduation: June 2026*
[Statistics] PhD Student
Advisor: Valen Johnson

Texas A&M University   *Graduated: May 2022*
[Statistics] BS-MS Fast Track Program

RESEARCH EXPERIENCE

Texas A&M University (Department of Statistics)   College Station, TX
Advisor: Dr. Valen Johnson   *August 2022 - Present*

· Developing a Bayesian validation/estimation method for complex agent based modeling systems.
· Designing realistic agent based models for epidemiological research, advised by expert recommendations from collaborating scientists.

Texas A&M University (Institute of Biosciences and Technology)   Houston, TX
Research Assistant at Dr. Kurt Zhang Lab   *August 2021 - May 2023*

· Conducted high-dimensional regression, association analysis, and clustering for large DNA datasets.
· Adapted statistical methodologies to address complex and large-scale data, collaborating with scientists to ensure the relevance and accuracy of findings.

Texas A&M University (Department of Physics)   College Station, TX
Principal Investigator: Dr. Peter Brown   *June 2020 - September 2020*

· Modeled UV light curves data to characterize of Type Ia Supernova using Python.
· Performed computationally challenging time series analysis for light curve emission, large dimensional data cleaning, and correlation analyses.

Texas A&M University (Department of Statistics)   College Station, TX
Principal Investigators: Dr. Shahina Rahman & Dr. Valen Johnson.   *June 2019 - September 2019*

· Conducted high-dimensional clustering simulations for RJClust package development.
· Explored scaling methods to manage large observation datasets.

Texas A&M University (Engineering Technology & Industrial Distribution)   College Station, TX
Principal Investigator: Malini Natarajarathinam   *May 2018 - July 2018*

· Cleaned and analyzed qualitative and quantitative survey data.

PUBLICATIONS

[submitted] **Minjee Kim**, Chengbin Xue, Tiffany Pei, Lauren Lawless, Linglin Xie, Ke Kurt Zhang. Nutrient and Metal Intakes and Racial Disparity of Hypertensive Disorders of Pregnancy. Nutrients.

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 — *September 2024 - Present*

· Maintain accurate records of meetings, including detailed minutes, action items, and follow-up responsibilities.
· Coordinate communication between association members, faculty advisors, and external stakeholders to ensure smooth operation and dissemination of information.

Statistics Undergraduate Student Association — College Station, TX
President — *September 2019 - May 2021*

· Organized events featuring industry professionals, professors, and alumni, providing undergraduate statistics majors with insights into career opportunities.

WORK EXPERIENCE

Texas A&M University (Math Learning Center) — College Station, TX
Statistics Tutor — *January 2021 - May 2021*

· Held Help Sessions for STAT 201 (Elementary Statistical Inference), STAT 302 (Statistical Methods), and STAT 303 (Statistical Methods).

Texas A&M University (Math Department) — College Station, TX
Mathematics Grader — *January 2020 - December 2020*

· Graded three different sections of MATH 308 (Differential Equations) during Spring 2020 and Fall 2020.

Texas A&M University (College of Science) — College Station, TX
Peer Mentor — *September 2019 - May 2020*

· Mentored first year students in the College of Science to increase the retention rate within the college.
· Assisted a seminar class to guide the students academically.
· Held biweekly meetings with each mentee to provide personal or academic counseling.

Texas A&M University (Department of Statistics) — College Station, TX
Peer Mentor — *September 2018 - May 2019*

· Mentored first year undergraduate statistics majors and helped them navigate their first year of college life.
· Held biweekly meetings with each mentee for personal or academic counseling.
· Served as a student leader in the Department of Statistics.

AWARDS

Dr. Ersen Arseven 74' Scholarship

· Awarded to high-achieving first-generation Statistics majors in the Science Leadership Scholars Program.