Principal Statistician - Institute for Clinical & Translational Science

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EDUCATION

- 2017–2022 **Doctor of Philosophy, Statistics**, *University of California Irvine*, Irvine, CA. Thesis: Bayesian State Space Models for Dynamic Functional Connectivity using fMRI Data
- 2017–2019 Master of Science, Statistics, University of California Irvine, Irvine, CA.
- 2014–2016 Bachelor of Science, Mathematics, James Madison University, Harrisonburg, VA.
- 2013–2014 Associate of Science, Mathematics, Thomas Nelson Community College, Hampton, VA.
 - Phi Theta Kappa Member (Honor Society)
 - Magna Cum Laude (Honors)

■ Fellowships & Grants

2019–2022 NSF Graduate Research Fellowship.

ACADEMIC PAPERS

- 2022 A Predictor-Informed Multi-Subject Bayesian Approach for Dynamic Functional Connectivity, Lee, J., Hussain, S., Warnick, R., Vannucci, M., Menchaca, I., Seitz, A. R., ... & Guindani, M.. arXiv preprint arXiv:2210.01281.
- 2018 Dimension Reduction of Gene Expression Data, Lee, J., Ciccarello, S., Acharjee, M. et al. . J Stat Theory Pract 12: 450. https://doi.org/10.1080/15598608.2017.1413456

EXPERIENCE

RESEARCH

- Summer 2018 Graduate Student Researcher, UC Irvine, Dr. Michele Guindani, Graphical Models for fMRI.
 - -2022 Dissertation Research. Bayesian State Space Models for Dynamic Functional Connectivity using fMRI Data
- Summer 2016 **NSF-REU**, Lamar University, Dr. Kumer Das, Statistical Methods for Microarray Analysis.

 A comparison study on latent variable regression techniques and their effectiveness with microarray data.
 - Spring 2015 Collaborative Research Project (CRP), James Madison University, Dr. A. Tongen.
 Research on open problems in tropical geometry, working in collaboration with students from across the country.

 TEACHING
 - Fall 2017 Teaching Assistant, UC Irvine, Introductory Statistics.
- Winter 2018 Held regular office hours, led discussion sections, graded exams, substitute as lecturer when needed.
- Spring 2017 High School Teacher, Bruton High School, Algebra/Geometry.
 - Long term substitute high school teacher. Responsible for preparing students for state examinations, maintaining classroom order, and grading assignments.
 - Fall 2016 Peer Tutor, JMU Science & Math Learning Center, Mathematics Specialization.
 - Held regular hours for walk-in math tutoring in the calculus sequence, linear algebra, and introductory statistics.

TECHNICAL

- 2020 Data Science Intern, PhD, Meta.
 - Created machine learning pipeline for intuitive interpretation of ranking algorithms
- 2020 Data Science Intern, PhD, Genworth Mortgage Insurance.
 - -Created machine learning pipeline for evaluating black box pricing system changes effects on market share.
- 2016 Student Consultant, Harrisonburg Free Clinic.
 - -Evaluated the usefulness of a penalty fee for patients who fail to show up to appointments using non-parametric methods.

Volunteering

- 2019 2022 **DECADE PLUS**, *UC Irvine*.
 - -Graduate Student mentor to undergraduate students from under-represented backgrounds.

- 2019 2022 DECADE Representative, UC Irvine.
 - -Serve as student representative for the statistics department for DECADE student council
 - Serve as department liaison between students/faculty/administration
 - 2015, 2016 Expanding Your Horizons, James Madison University.
 - -Annual event with the goal of increasing participation of middle school girls in STEM fields
 - -Served as a session assistant, guide, and assisted in data entry.

SOFTWARE SKILLS

R, Python, Matlab, Apache Spark

Conferences, Awards & Recognitions

Conferences & Talks

Joint Statistical Meeting Irvine, CA. August 10, 2021

-Bayesian Non-homogeneous Hidden Markov models for Dynamic Functional Connectivity: 15 min presentation.

MIND Emerging Scientist Symposium Irvine, CA. February 21, 2020

-Bayesian Non-homogeneous Hidden Markov models for Dynamic Functional Connectivity: Poster.

Lamar University Colloquium Beaumont, TX. August 15, 2016

-Dimension Reduction of Gene Expression Data : Undergraduate lecture.

Shenandoah Undergraduate Mathematics and Statistics (SUMS) Conference

Harrisonburg, VA. September 24, 2016

-Dimension Reduction of Gene Expression Data: 15 min presentation.

Research Experience for Undergraduates Symposium Arlington, VA. October 24, 2016

-Dimension Reduction of Gene Expression Data: Poster Session.

AWARDS, HONORS, & RECOGNITIONS

- 2022 ARCS Foundation Beckman Scholar, UC Irvine.
- 2021 ARCS Foundation Scholar Award, UC Irvine.
- 2021 Outstanding DECADE Member Award, UC Irvine.
- 2016 Dean's List, James Madison University.
- 2016 Putnam Exam Official Team Member, James Madison University.
- 2016 Pi Mu Epsilon, Virgina Gamma Chapter.