MEGHA JOSHI

Experienced statistician with strong background and interest in causal inference, meta-analysis, and missing data.

EDUCATION

2020 (expected)

The University of Texas at Austin

PhD in Quantitative Methods

Austin, TX

Advisors: Dr. Tasha Beretvas and Dr. James E. Pustejovsky

Thesis: Cluster wild bootstrapping to handle dependent effect sizes in meta-analysis with small number of studies

2017

The University of Texas at Austin

MEd in Quantitative Methods

Austin, TX

2014

Bryn Mawr College

BA in Art History and Psychology

Paryn Mawr, PA



2019

2019

Direct ties to a faculty mentor related to positive outcomes for undergraduate researchers

BioScience, Volume 69, Issue 5, Pages 389–397

Joshi, M., Aikens, M. L., & Dolan, E. L.

Austin, TX

Josin, W., Aikeris, W. L

 The performance of multivariate methods for two-group comparisons with small samples and incomplete data

comparisons with small samples and incomplete data

Multivariate Behavioral Research, Pages 1-18

◆ Austin, TX

Pituch, K. A., **Joshi, M.**, Cain, M. E., Whittaker, T. A., Chang, W., Park, R., & McDougall, G. J.



TECHNICAL PAPERS

2019

Evaluating the Transition to College Mathematics course in Texas high schools: Findings from the first year of implementation

Pustejovsky, J. E., & Joshi, M.

CONTACT INFO

- megha.j456@utexas.edu
- meghapsimatrix.com
- github.com/meghapsimatrix
- **J** 469-235-3003

For more information, please contact me via email.

SKILLS AND INTERESTS

Statistical analysis and data vizualization

Causal inference, experimental design, meta-analysis, and missing data analysis

Machine learning

R, Python, SQL, Git, Tableau

R PACKAGE

simhelpers 0.1.0

This resume was made with the R package **pagedown**.

Last updated on 2020-10-22.

CONFERENCE PRESENTATIONS

2019

Cluster wild bootstrapping to handle dependent effect sizes in meta analyses with small numbers of studies

Poster session at the American Educational Research Association annual meeting

♥ Toronto, Canada

Joshi, M., Cappelli, P., Pustejovsky, J. E., & Beretvas, S. N.

2019

Small sample performance of multilevel and traditional methods for multivariate group comparisons with incomplete data

Roundtable session at the American Educational Research Association annual meeting

Toronto, Canada

Pituch, K. A., Whittaker, T. A., Joshi, M., Park, R., & Cain M. E.

■ WORK EXPERIENCE

2020 | Present

Graduate Research Assistant

The University of Texas at Austin

Austin, TX

Supervisors: Dr. Pedro Reyes & Dr. Celeste D. Alexander

- Assisted in an initiative started by Dean Charles Martinez to study the effects of Teacher Preparation Programs (TPPs) on teacher retention in Texas.
- Integrated large relational datasets from Texas Education Agency and State Board for Educator Certification. Access to the data was provided by the UT Education Research Center.
- Analyzed the impact of TPPs on employment and retention using linear probability model and survival analysis.
- Collaborated with team members and delegated data-analytic tasks.

2020 | Present

Graduate Research Assistant

The University of Texas at Austin

Austin, TX

Supervisor: Dr. Laura Costello

- Created surveys to collect information on the impact of COVID-19 outbreak on students, faculty, and staff at the College of Education.
- Generated reports to be disseminated to the College of Education.

2017

Graduate Research Assistant

The University of Texas at Austin

Austin, TX

Supervisor: Dr. James E. Pustejovsky

- Evaluated the impact of a college preparatory program using propensity score analysis with generalized boosted modeling.
- Integrated large relational datasets containing information on all students in Texas schools from multiple sources data like Texas Education Agency and Texas Higher Education Coordinating Board. Access to the data was provided by the UT Education Research Center.
- Created technical reports on the findings; communicated findings to stakeholders.

2016

Graduate Research Assistant

The University of Texas at Austin

Austin, TX

Supervisor: Dr. Erin L. Dolan

- Coordinated a research project on undergraduate research experiences.
- Designed a survey using Qualtrics and recruited over a thousand undergraduates nationwide to participate.
- · Analyzed data using structural equation modeling.

2015-2016

Integrated Community Development Intern

A Glimmer of Hope Foundation

Austin, TX

Supervisor: Leslie Llado

- Analyzed data related to health, education, water, sanitation, and microfinance projects carried out by the organization in Ethiopia.
- Developed a method to estimate the number of people who have benefited from the projects.

TEACHING EXPERIENCE

2015 | Present

Graduate Teaching Assistant

The University of Texas at Austin

Austin, TX

Supervisors: Dr. James E. Pustejovsky, Dr. Keenan A. Pituch, Dr. Sarah M. Collins, Dr. Lindsey J. Smith

- Assisted in the following courses: Causal Inference; Data Analysis, Simulation and Programming in R; Research Design; Survey of Multivariate Methods; Fundamental Statistics; and Statistics in Market Analysis.
- Effectively communicated complex statistical methods to students with little prior background in the field.

T FELLOWSHIPS AND AWARDS

2020-2021 Graduate School Continuing Fellowship

The University of Texas at Austin

Austin, TX

2019-2020 Teresa Lozano Long Endowed Graduate Fellowship

The University of Texas at Austin

Austin, TX

2017-2019 Graduate Student Recruitment Fellowship

The University of Texas at Austin

Austin, TX

2015-2016 Lee Hage and Joseph D. Jamail Endowed Scholarship in Education

The University of Texas at Austin

Austin, TX

2012

Benjamin Gilman International Scholarship

U.S. Department of State

Paryn Mawr, PA

2010-2014 Bryn Mawr College Grant

Bryn Mawr College

Bryn Mawr, PA