MEGHA JOSHI

Experienced statistician with strong background and interest in causal inference and meta-analysis. I have six years of experience in managing and leading research projects, developing analytic strategy, analyzing large, complex datasets, and communicating results effectively.

EDUCATION

2021

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

2014

Bryn Mawr College

BA in Art History and Psychology

Paryn Mawr, PA

RESEARCH EXPERIENCE

2021 | Present

Quantitative Researcher

American Institutes for Research

Austin, TX

- Develop methodological strategies for projects using causal inference and meta-analysis. Conduct the analyses.
- · Clean and merge data with millions of rows.
- Create a Shiny app for users to run meta-analysis and create visualizations of research evidence.

2021

Data Scientist

Analyst Institute

Austin, TX

- Developed the codebase infrastructure to conduct inferential analysis on data with over a hundred million rows and data with complex structures.
- Designed the methodological and analytical strategy to conduct the inferential analysis.
- Solved methods related issues such as selecting appropriate cluster robust variance estimator, and estimating marginal causal effects.

2021

Statistical Consultant

Freelance

Austin, TX

- Executed a meta-analysis examining the extent of bias in analyses of quasi-experimental designs that have different study characteristics.
- Implemented code to run meta-analytic models accounting for complex data structures.
- · Produced graphs and tables displaying the results.

CONTACT INFO

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

For more information, please contact me via email.

SKILLS

Statistical Software: R, Python

Version Control: Git

Project Management: Asana, Trello

RESEARCH INTERESTS

Causal inference

Meta-analysis

Machine learning

R PACKAGES

simhelpers 0.1.1

wildmeta 0.0.0.9000

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

Last updated on 2021-09-22.

2020 2021

Graduate Research Assistant

The University of Texas at Austin

Austin, TX

- Led the methods team for a project examining the effects of teacher preparation programs on teacher retention in Texas.
- Evaluated the impact of a college preparatory program using propensity score analysis with generalized boosted modeling.
- · Integrated large relational datasets.
- · Developed and implemented the analytical strategy.
- Produced reports and presentations detailing the results to be presented to a non-technical audience.

TEACHING EXPERIENCE

2015 Present

Graduate Teaching Assistant

The University of Texas at Austin

Austin, TX

- · 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.
- Led weekly problem-solving sessions through office hours; effectively communicated complex statistical methods to students; and, fostered interest in methodological research.

PUBLICATIONS AND TECHNICAL PAPERS

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.

2019

The performance of multivariate methods for two-group comparisons with small samples and incomplete data Multivariate Behavioral Research, Pages 1-18

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

& McDougall, G. J.

2019

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

Greater Texas Foundation

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



SELECTED 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.