MEGHA JOSHI

Experienced statistician with strong background and interest in causal inference and meta-analysis. I have eight 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

Bryn Mawr, PA

WORK EXPERIENCE

2021

Quantitative Researcher

American Institutes for Research

Austin, TX

Present

- Develop methodological strategies for projects using causal inference and meta-analysis. Conduct the analyses evaluating effects of programs and policies.
- · Conduct methodological studies to examine performance of different statistical methods.
- Created a Shiny app for users to run meta-analyses and plot research evidence gaps.

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

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- github.com/meghapsimatrix
- 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

wildmeta 0.3.2

simhelpers 0.2.0

This resume was made with the R package pagedown.

2016 | 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

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.

■ SELECTED PUBLICATIONS

2022

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

Research Synthesis Methods

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

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.