MEGHA JOSHI

Experienced statistician with strong background and interest in causal inference and meta-analysis. I have five years of experience in managing and leading research projects, 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

RESEARCH EXPERIENCE

2021 | Present — **Meta-Analysis 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

- Conducted 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 to be used in publications.

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.
- Integrated large relational datasets from the Texas Education Agency and the State Board for Educator Certification.
- Developed and implemented analytical strategy using survival analysis to estimate the impact of the preparatory programs.
- Drafted reports and presentations detailing the results to be presented to a non-technical audience.

CONTACT INFO

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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

Missing data 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 2021-08-13.

2017 | 2020

Graduate Research Assistant
The University of Texas at Austin — Austin, TX

- Evaluated the impact of a college preparatory program using propensity score analysis with generalized boosted modeling.
- Integrated large relational datasets from the Texas Education Agency and the Texas Higher Education Coordinating Board.
- Developed the codebase to clean and analyze the data.
- Created technical reports on the findings; effectively communicated findings to stakeholders.

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.
- Effectively communicated complex statistical methods to students with little prior background in the field.

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.