



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**
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Present ● **Meta-Analysis Data Scientist**
Analyst Institute  Austin, TX
 - Conducted methodological literature review on meta-analysis, wrote the analysis plan, and implemented code to conduct the analyses.
 - Consulted with analysts and research managers to solve methods related issues such as selecting appropriate cluster robust variance estimator, estimating marginal causal effects, and analyzing survey data.
- 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.
- 2020**
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Present ● **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.
 - Conducted survival analysis to estimate the impact of the preparatory programs.
 - Drafted reports and presentations detailing the results.

CONTACT INFO

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-  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

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 2021-05-13.

2017
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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.
 - Created technical reports on the findings; communicated findings to stakeholders.

TEACHING EXPERIENCE

2015
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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.