

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

- 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.
- 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.
- 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.

CONTACT INFO

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🔗 github.com/meghapsimatrix
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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 2021-05-16.

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.



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.