



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
(expected)
- **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

- 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; devised and delegated weekly data analytic tasks to a team of three people.
 - Integrated large relational datasets from the Texas Education Agency and the State Board for Educator Certification.
 - Analyzed the impact of preparatory programs on employment and retention using propensity score weighting, linear probability model, and survival analysis.
- 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 containing information on all students in Texas schools from multiple sources like the Texas Education Agency and the Texas Higher Education Coordinating Board.
 - Created technical reports on the findings; communicated findings to stakeholders.
- 2016
- **Graduate Research Assistant**
The University of Texas at Austin  Austin, TX
 - Coordinated a research project on undergraduate research experiences.
 - Designed a survey using Qualtrics and recruited over a thousand undergraduates nationwide to participate.
 - Analyzed data using structural equation modeling.

CONTACT INFO

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 meghapsimatrix.com
 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: Trello

RESEARCH INTERESTS

Causal inference

Meta-analysis

Missing data analysis

Machine learning

R PACKAGES

[simhelpers 0.1.0](#)

[wildmeta 0.0.0.9000](#)

This resume was made with the R package [pagedown](#).

Last updated on 2020-11-30.



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.



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.

2019

Small sample performance of multilevel and traditional methods for multivariate group comparisons with incomplete data

Roundtable session at the American Educational Research Association annual meeting

📍 Toronto, Canada

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



TRAINING

2020

What Works Clearinghouse Group Design Standards

Online Training