# **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

Paryn Mawr, PA

# RESEARCH EXPERIENCE

2021 | 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

The University of Texas at Austin

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 | 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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**J** 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

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 2021-05-11.

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.
- · Created technical reports on the findings; 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

Direct ties to a faculty mentor related to positive outcomes 2019 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.