

# RUSHIL ZUTSHI

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Extension: 6860

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Pardee RAND Graduate School  
Ph.D. Candidate in Policy Analysis

Santa Monica, CA  
2017 – Present

Carnegie Mellon University  
M.S Energy Science and Policy

Pittsburgh, PA  
2015-2016

VIT University  
B.Tech Electrical and Electronics Engineering

Vellore, India  
2011-2015

## SKILLS

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### Computer Skills

Statistical Packages: Stata, R

Qualitative Analysis Software: Dedoose

Other: Python, LaTeX, Git, Tableau, QGIS, MATLAB

### Languages

English (fluent), Hindi (fluent), Kashmiri (mother tongue), Spanish (elementary)

## ONGOING RESEARCH

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### What Drives Poor Care for Child Diarrhea?

A Standardized Patient Experiment (NIH RO1 grant)

Ongoing

PI: Zach Wagner

- Assisting in a multi-arm RCT to study the causal effects of patient demand, financial incentives, and stock-outs on ORS prescription and dispensing.
- Tasks include reaching out to stakeholders, creating survey instruments, data collection and analysis.

### Technology and Social Uprisings using

Agent Based Models

Ongoing

PI: Aaron Frank

- Assisting with building an agent-based model to better understand how individuals use technology to form social movements, how the state monitors these agents and the ensuing dynamics.

### Modeling the Coupled Dynamics of Influenza

Transmission and Vaccination Behavior (NIH RO1 grant)

Ongoing

PI: Raffaele Vardavas

- In this project, we collect multiple waves of nationally representative survey data on behavioral factors associated with the decision to seek influenza vaccination. We then use these data to inform the development of an innovative agent-based model (ABM) that allowed experiences from past influenza seasons affect decisions to get vaccinated in the current season, and thus influence the course of an epidemic at the population level.

Microsimulation of Obesity Interventions  
on Cardiometabolic Health Disparities in the United States Ongoing  
PI: Andrea Richardson, Roland Sturm

- Estimating long-term impacts of environmental obesity interventions on cardiometabolic health disparities using the Future Americans Microsimulation Model (FAM)

Pilot Study - Text Messaging-Based Smoking Cessation Program  
for Homeless Youth (NIH R34 grant) Ongoing  
PI: Joan Tucker

- Designed the text-messaging intervention in Telerivet using the JavaScript API.
- Conducting usability testing and implementing feedback.
- Conducting focus group and performing qualitative analysis on transcript data.
- Assisting with data analyses once the intervention data are obtained.

## PUBLICATIONS

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### **Peer Reviewed Publications**

S., Linnemayr, S., **Zutshi, R.**, Shadel, W.G., Pedersen, E.R., DeYoreo, M., Tucker, J. (2021). Text Messaging Intervention for Young Smokers Experiencing Homelessness: Lessons Learned From a Randomized Controlled Trial. *Nicotine & Tobacco Research (forthcoming)*.

Tucker, J.S., Linnemayr, S., Pedersen, E.R., Shadel, W.G., **Zutshi, R.**, DeYoreo, M., Cabrerros, I. (2021). Pilot Randomized Clinical Trial of a Text Messaging-Based Intervention for Smoking Cessation Among Young People Experiencing Homelessness. *JMIR Mhealth Uhealth (forthcoming)*. doi:10.2196/23989

Tucker, J.S., Pedersen, E.R., Linnemayr, S., Shadel, W.G., DeYoreo, M. and **Zutshi, R.**, 2020. A text message intervention for quitting cigarette smoking among young adults experiencing homelessness: study protocol for a pilot randomized controlled trial. *Addiction science & clinical practice*, 15(1), pp.1-13.

Tucker, J.S., Linnemayr, S., Pedersen, E.R., Shadel, W.G., **Zutshi, R.** and Mendoza-Graf, A., 2019. Developing a text messaging-based smoking cessation intervention for young smokers experiencing homelessness. *Journal of Smoking Cessation*, pp.1-9.

Bouskill, K., Hempel, S., Richardson, A., Ganz, P.A., Baxi, S., **Zutshi, R.**, Larkin, J., Motala, A., Miles, J.N. and Crandall, C.J., 2019. Evidence map of ductal carcinoma in situ management options. *Menopause*, 26(11), pp.1250-1258.

### **Preprint**

Osoba, O.A., Vardavas, R., Grana, J., **Zutshi, R.** and Jaycocks, A., 2020. Policy-focused Agent-based Modeling using RL Behavioral Models. *arXiv preprint arXiv:2006.05048*.

### **Conference Proceedings**

**Zutshi, R.**, Richardson, A., Nguyen, P. and Sturm, R., 2020, November. Microsimulation of Obesity Interventions on Cardiometabolic Health Disparities in the United States. In *2020 APPAM Fall Research Conference*. APPAM.

Hummer, J. F., Davis, J. P., **Zutshi, R.**, Diguseppi, G., Sedano, A., Rodriguez, A., Clapp, J. D., & Pedersen, E. R. (2020, April). *A measure to assess protective behavioral strategies for pregaming among young adults*. Society of Addiction Psychology. Collaborative Perspectives on Addiction (CPA) Conference Program. Retrieved from [osf.io/xgy9k](https://osf.io/xgy9k) doi: 10.17605/OSF.IO/XGY9K.

**Zutshi, R.**, Sood, A., Rathore, P.S., Ghosh, S. and John, G., 2013, December. Energy efficiency optimization for proposed high speed trains in India. In *2013 International Conference on Connected Vehicles and Expo (ICCVE)* (pp. 916-917). IEEE.

## TEACHING EXPERIENCE

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**Instructor – Microeconomics Bootcamp** Summer - 2018, 2019, 2020  
**Pardee RAND Graduate School** Santa Monica, CA

- Co-instructed the week- long Microeconomics boot camp for the incoming cohort of 2018, 2019, and 2020. Covered topics from consumer theory, producer theory, partial equilibrium and uncertainty.

**Teaching Assistant – Microeconomics I** Fall – 2018, 2019  
**Pardee RAND Graduate School** Santa Monica, CA

- Duties included grading problem sets, mid-term and final exam, holding weekly TA sessions and open hours and setting a question for the mid-term and final exam.

**Teaching Assistant – Statistics for Policy Analysis** Winter – 2019, 2020  
**Pardee RAND Graduate School** Santa Monica, CA

- Duties included grading problem sets and quizzes and holding weekly TA sessions and lab sessions.

**Teaching Assistant – Advanced Econometrics: Panel Data** Winter – 2021  
**Pardee RAND Graduate School** Santa Monica, CA

- Duties included grading problem sets and quizzes and holding weekly TA sessions.

## HONORS AND AWARDS

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**Best Teaching Assistant Award (1<sup>st</sup> Place)**  
**Pardee RAND Graduate School** 2020

**Best Research Poster (1<sup>st</sup> Place)**  
**Duke University Energy Conference** 2016

**Best Research Poster (2<sup>nd</sup> Place)**  
**MIT Energy Conference** 2016