

## CONTACT

## INFORMATION

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## EDUCATION

PhD Candidate, [University of Rochester](#) **Aug 2017–Dec 2022 (Expected)**  
Department of Biostatistics and Computational Biology  
Title: *The Partial Linear Model in Causal Inference:  
Estimation, Selection and Inference Leveraging Machine Learning*

B.S., [Stetson University](#) **Aug 2011–May 2015**  
Department of Mathematics and Computer Science

## PROFESSIONAL

## EXPERIENCE

Janssen Pharmaceutical **Summer 2019**  
Statistics Intern

LabAnswer, Inc. (Acquired, Deloitte 2017) **2015–2017**  
Informatics Consultant, *Software Development and Support*

## RESEARCH

## INTERESTS

Variable Selection, Post-Selection Inference, Causal Inference, Mediation Analysis, Precision  
Medicine, Semiparametric Theory, High-Dimensional Analyses.

## PREPRINTS AND

## PUBLICATIONS

- **Jones, J.**, Ertefaie, A., & Strawderman, R.L. (2022). Valid post-selection inference in Robust Q-learning. [arXiv:2208.03233](#). (preprint)
- **Jones, J.**, Ertefaie, A., & Strawderman, R.L. (2021). Causal Mediation Analysis: Selection with Asymptotically Valid Inference. [arXiv:2110.06127](#). (under review)
- **Jones, J.**, Ertefaie, A., & Strawderman, R.L. (2021). Post-Selection Inference for Individualized Treatment Rules with Nonparametric Confounding Control. In *Handbook of Precision Medicine*. (accepted)
- **Jones, J.**, Ertefaie, A. & Shortreed, S.M. (2022). Rejoinder to “Reader reaction to ‘Outcome-adaptive Lasso: Variable selection for causal inference’ by Shortreed and Ertefaie (2017)”. *Biometrics*, 00, 1–5. <https://doi.org/10.1111/biom.13681>
- Yaeger, J.P., **Jones, J.**, Ertefaie, A., Caserta, M. T., van Wijngaarden, E., & Fiscella, K. (2022). Refinement and Validation of a Clinical-Based Approach to Evaluate Young Febrile Infants. *Hospital Pediatrics*, 12(4), 399-407. <https://doi.org/10.1542/hpeds.2021-006214>
- Yaeger, J. P., Lu, J., **Jones, J.**, Ertefaie, A., Fiscella, K., & Gildea, D. (2022). Derivation of a natural language processing algorithm to identify febrile infants. *Journal of Hospital Medicine*, 17(1), 11–18. <https://doi.org/10.1002/jhm.2732>

- Yaeger, J. P., **Jones, J.**, Ertefaie, A., Caserta, M. T., van Wijngaarden, E., & Fiscella, K. (2021). Using clinical history factors to identify bacterial infections in young febrile infants. *The Journal of Pediatrics*, 232, 192-199. <https://doi.org/10.1016/j.jpeds.2020.12.079>

#### CONFERENCE

##### PRESENTATIONS

- ENAR, Hybrid, 2022 and JSM, Washington, DC, 2022 (upcoming). *Casual Mediation Analysis: Selection with Asymptotically Valid Inference*.
- (Invited) EcoStat, Online, 2021. *Inference after Model Selection in Robust Q-learning*.
- ENAR, Online, 2021. *Post-selection Inference via the Lasso in Robust Q-Learning*.
- 22nd Annual NINDS Udall Centers Meeting, Online, 2020. *Treatment characterization and decision-making strategy for first-line pharmacological motor symptomatic therapies in Parkinson's disease*.
- ENAR, Philadelphia, PA, 2019. *Mediator Selection with Nonparametric Confounding Control*.

#### TALKS AND

##### POSTERS

- American Causal Inference Conference, Berkeley, CA, 2022. *Casual Mediation Analysis: Selection with Asymptotically Valid Inference*.
- (Internal) UR School of Medicine and Dentistry Visit Weekend, Online, 2021. *Understanding causation with statistical learning: Mediation analysis with the partial linear model*.
- National Studies on Air Pollution and Health Working Group, Harvard University, Online, 2021. *Challenges in Assessing Medicare Hospitalization-Mediated Effect of PM2.5 on Mortality*.
- (Internal) UR School of Medicine and Dentistry Visit Weekend, Rochester, NY, 2021. *Personalized Medicine for Parkinson's disease. A Statistical Machine-Learning Approach*.
- (Internal) UR Neurology Working Group, Online, 2021. *Individualized first-line treatment strategies for the motor symptoms of Parkinson's disease*.
- (Internal) UR School of Medicine and Dentistry Visit Weekend, Rochester, NY, 2020. *Personalized Medicine for Parkinson's disease. A Statistical Machine-Learning Approach*.
- UpSTAT 2018, Rochester, NY. *A brief history of crime in Rochester, NY*.

#### HONORS AND

##### AWARDS

- 2022 ENAR Distinguished Student Paper Award
- 2021-2022 William Jackson Hall Graduate Student Fellowship.
- Trainee Rapid Research Presenter Nominee, UR-Udall Centers Virtual Meeting + Symposium, 2020.
- NSF Graduate Research Fellowship Honorable Mention, 2019.
- UpStat 2018 Data Science Team Competition, Gold Medal, 2018.
- Ashcraft Award for the Outstanding Junior in Mathematics, 2014.

#### VISITING

##### SCHOLAR

- Department of Epidemiology, Harvard School of Public Health, Aug 2020-Present.

#### TEACHING AND

##### ASSISTANTSHIP

- Spring 2022, Statistical Inference II, BST 412 (Lecture on Selective Inference).
- Fall 2020, Semiparametric Theory, BST 512 (Lecture on Semiparametric Efficiency of the Partial Linear Model)
- Spring 2019, Intermediate Statistical and Computational Methods, CSC 265
- Fall 2017, Introduction to Biostatistics, BST 463