

Raiden B. Hasegawa

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EDUCATION

- 2014-Present Ph.D., Statistics, The Wharton School, University of Pennsylvania
Dissertation title: *Sensitivity Analysis in the Presence of Heterogeneous and Potentially Unbounded Confounding*
Advisor: Professor Dylan S. Small
- 2012-2013 M.S. coursework, Scientific Computing, Courant Institute of Mathematical Sciences, New York University
- 2006-2010 B.A., *cum laude*, *Distinction in Major*, Economics, Yale University

TEACHING

- 2014-2018 Department of Statistics, The Wharton School, University of Pennsylvania (TA)
STAT 101 & 102: Introductory Business Statistics
STAT431: Mathematical Statistics
STAT471: Intermediate Statistics
STAT474: Modern Regression for Social, Behavioral and Biological Sciences
STAT613: Regression Analysis for Business
- 2016-2018 Wharton Moneyball Academy (Graduate Instructor)
Sports data science summer course for advanced high school students.

PUBLICATIONS (* denotes co-first authors, equal contributions)

- Fogarty, Colin B.* and **Hasegawa, Raiden B.*** (2018+). Extended sensitivity analysis for heterogeneous unmeasured confounding with an application to sibling studies of returns to education. *Annals of Applied Statistics*, to appear.
- Deshpande, Sameer K.*, **Hasegawa, Raiden B.*** et al.(2017) Association of Playing High School Football with Cognition and Mental Health Later in Life. *JAMA Neurology*, 74, 8, 909-918.
- **Hasegawa, Raiden B.** and Small, Dylan S. (2017). Sensitivity Analysis for Matched Pair Studies of Binary Data: From Worst case to Average Case Analysis. *Biometrics*, 73, 4, 1424-1432.
- Del Negro, Marco, **Hasegawa, Raiden B.**, and Schorfheide, Frank (2016). Dynamic Prediction Pools: An Investigation of Financial Frictions and Forecasting Performance. *Journal of Econometrics*, 192, 22, 391-405.

SUBMITTED PAPERS

- **Hasegawa, Raiden B.**, Small, Dylan S., and Webster, Daniel W. (2018+). Bracketing in the Comparative Interrupted Time-Series Design to Address Concerns about History Interacting with Group: Evaluating Missouri Handgun Purchaser Law. *Revision Submitted*.

- **Hasegawa, Raiden B.**, Deshpande, Sameer K., Small, Dylan S., and Rosenbaum, Paul R. (2018+). Causal Inference with Two Versions of Treatment. *Revision Invited*.

PAPERS IN PREPARATION

- **Hasegawa, Raiden B.**, Small, Dylan S., and Ter Kuile, Feiko O. Estimating Treatment Efficacy against Malaria in the Absence of a Gold-Standard Case Definition.
- Keele, Luke J. and **Hasegawa, Raiden B.**. Assessing the Effects of Voter Identification Laws Using Bracketing and Differences-in-Differences.

RESEARCH INTERESTS

causal inference • design and analysis of observational studies • sensitivity analysis • evidence factors and multiple comparisons • statistical applications in social and biomedical sciences

CONFERENCE PRESENTATIONS AND POSTERS

- *Effects of Playing High School Football on Mental Health in Early Adulthood: An Observational Study* ■ Add Health Users Conference, Jul 2018 @ NIH
- *Extended Sensitivity Analysis for Heterogeneous Unmeasured Confounding with an Application to Sibling Studies of Returns to Education* ■ Atlantic Causal Inference Conference, May 2018 @ CMU

AWARDS

- Tom R. Ten Have Award (*Honorable Mention*), 2018
Awarded at the 2018 Atlantic Causal Inference Conference for “exceptionally creative or skillful research on causal inference” for the papers “Extended Sensitivity Analysis for Heterogeneous Unmeasured Confounding with an Application to Sibling Studies of Returns to Education”

CONSULTING EXPERIENCE

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| 2016-2017 | Race-based bias in personal property insurance payouts case, <i>Statistical Expert</i>
– Expert report led to a “fair and balanced settlement.”
– Methods: clustered logistic regression used to assess the correlation between racial composition and proportion of insurance claims outstanding by zipcode-year. |
| 2016 | Electricians’ union discrimination case, <i>Statistical Expert</i>
– Methods: robust permutational tests used to assess the possible presence of racial bias in the “quality” of jobs assigned by an electricians’ union to its members. |

WORK EXPERIENCE

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| 2012-2014 | Federal Reserve Bank of New York, Research Associate
Research Areas: Bayesian macroeconomic forecasting, Bayesian VAR models, particle filtering, parallel scientific computing
Programming Languages: Matlab, Stata and Python, Bash and Awk scripting |
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- 2011-2012 GreenOrder, Sustainability Analyst
Provided management and strategy consulting services to Fortune 500 companies with a focus on sustainability
- 2010-2011 DC Energy, Investment Analyst
Designed, tested and implemented quantitative trading strategies in wholesale power markets.
Programming Languages: PHP, MySQL, R

PROGRAMMING EXPERIENCE

In order of proficiency/experience: R, Matlab, Python, C++, Haskell, SQL, Bash, Stata