

# Anthony D. Scotina

## Curriculum Vitae

Department of Mathematics and Statistics  
Simmons College  
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### Education

- 2018 **Ph.D. Biostatistics**, Brown University, Providence, RI.
  - Dissertation: Estimation of Multi-Treatment Effects from Observational Data with Applications to Type 2 Diabetes Mellitus
  - Advisor: Roe Gutman
- 2014 **M.S. Statistics**, University of Massachusetts, Amherst, MA.
- 2012 **A.B. Mathematics and Psychology**, *cum laude*, College of the Holy Cross, Worcester, MA.

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### Academic Experience

- 2018-present **Assistant Professor**, Simmons College, Department of Mathematics and Statistics.
- 2014-2018 **Research Assistant**, Brown University, Center for Statistical Sciences.
- 2012-2014 **Teaching Assistant**, University of Massachusetts, Department of Mathematics and Statistics.
- 2011-2012 **Research Assistant**, College of the Holy Cross, Department of Psychology.

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### Teaching Experience

#### Simmons College, Boston, MA

##### Instructor

- MATH 118: Introductory Statistics
  - Fall 2018

#### Brown University, Providence, RI

##### Instructor

- CEMA 0907: Applied Statistics
  - Summer 2014 [10], Summer 2015 [12], Summer 2016 [13], Summer 2017 [14], Summer 2018 [13]
- Mathematical Statistics Review Workshop
  - Summer 2015, Summer 2016, Summer 2017

##### Teaching Assistant

- PHP 1501: Essentials of Data Analysis (Fall 2015)
- PHP 2520: Statistical Inference I (Fall 2016, Fall 2017)
- PHP 2530: Bayesian Statistical Methods (Spring 2017)
- PHP 2560: Introduction to Statistical Computing (Spring 2016)
- PHP 2601: Linear Models (Fall 2015)
- PHP 2610: Causal Inference and Missing Data (Fall 2016)

#### University of Massachusetts, Amherst, MA

##### Instructor

- STAT 111: Elementary Statistics (Summer 2013 [5])

##### Teaching Assistant

- STAT 240: Introduction to Statistics (Fall 2012, Spring 2013, Spring 2014)
- STAT 240: Introduction to Statistics (online) (Summer 2013, Winter 2013)
- STAT 697TS: Time Series Analysis and Applications (Spring 2014)
- MATH 131: Calculus I (Fall 2013)

\* [.] denotes enrollment

## Publications

### Submitted and In Preparation

- [1] **Scotina, A.D.** and Gutman, R. Matching estimators for causal effects of multiple treatments. Submitted.
- [2] **Scotina, A.D.** and Gutman, R. Matching algorithms for causal inference with multiple treatments. Submitted.
- [3] **Scotina, A.D.**, Gutman, R., Zullo, A.R., Dore, D.D., and Smith, R.J. Using approximate Bayesian bootstrap to evaluate the cardiovascular safety of multiple type 2 diabetes treatments. In preparation.

## Presentations

### Contributed Talks

- [1] **Scotina, A.D.** and Gutman, R. Matching Estimators for Causal Effects of Multiple Treatments. *Brown University Department of Biostatistics Ph.D. Research Presentation Day*, Providence, RI. May 2016.
- [2] **Scotina, A.D.** and Gutman, R. Matching Estimators for Causal Effects of Multiple Treatments (Speed Presentation). *Joint Statistical Meetings*, Chicago, IL. August 2016.
- [3] **Scotina, A.D.** and Gutman, R. Matching Algorithms for Causal Inference with Multiple Treatments. *Brown University Department of Biostatistics Ph.D. Research Presentation Day*, Providence, RI. May 2017.
- [4] **Scotina, A.D.** and Gutman, R. Matching Estimators for Causal Effects of Multiple Treatments. *Joint Statistical Meetings*, Baltimore, MD. July 2017.
- [5] **Scotina, A.D.** and Gutman, R. Matching Algorithms for Causal Inference with Multiple Treatments. *International Conference on Health Policy Statistics*, Charleston, SC. January 2018.
- [6] **Scotina, A.D.**, Gutman, R., Zullo, A.R., Dore, D.D., and Smith, R.J. Using Generalized Propensity Score Matching to Evaluate the Cardiovascular Safety of Multiple Type 2 Diabetes Treatments. *International Society for Pharmacoepidemiology Mid-Year Meeting*, Toronto, Canada. April 2018.
- [7] **Scotina, A.D.** HallOfFameR: Using Shiny to Evaluate Hall of Fame Candidacy in Major League Baseball. *Brown University Department of Biostatistics Ph.D. Research Presentation Day*, Providence, RI. May 2018.

### Poster Presentations

- [1] **Scotina, A.D.**, Biolsi, J., and McGill, J. Interacting with Others: Modes of Communication and Non-Verbal Behaviors. *College of the Holy Cross Undergraduate Research Symposium*, Worcester, MA. April 2012.
- [2] **Scotina, A.D.**, Miller, M., and Mobilio, D. Predicting activPAL Posture from Actigraph Acceleration using Random Forest Models and Linear Discriminant Analysis. *University of Massachusetts Amherst Statistics Project Seminar*, Amherst, MA. April 2014.
- [3] **Scotina, A.D.** and Gutman, R. Matching Estimators for Causal Effects of Multiple Treatments. *Brown University Public Health Research Day*, Providence, RI. April 2016.

- [4] **Scotina, A.D.** and Gutman, R. Matching Estimators for Causal Effects of Multiple Treatments. *New England Statistics Symposium*, Yale University, New Haven, CT. April 2016.
- [5] **Scotina, A.D.** and Gutman, R. Matching Estimators for Causal Effects of Multiple Treatments. *Joint Statistical Meetings*, Chicago, IL. August 2016.
- [6] **Scotina, A.D.** and Gutman, R. Matching Estimators for Causal Effects of Multiple Treatments. *ENAR Spring Meetings*, Washington, D.C. March 2017.
- [7] **Scotina, A.D.** and Gutman, R. Matching Algorithms for Causal Inference with Multiple Treatments. *Brown University Public Health Research Day*, Providence, RI. April 2017.
- [8] **Scotina, A.D.**, Gutman, R., Zullo, A.R., Dore, D.D., Smith, R.J. Using Generalized Propensity Score Matching to Evaluate the Cardiovascular Safety of Multiple Type 2 Diabetes Treatments. *Brown University Public Health Research Day*, Providence, RI. April 2018.

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## Awards

- 2018 International Society of Pharmacoepidemiology Mid-year Conference Travel Award
  - Awarded \$850
- 2011 Psi Chi (International Honor Society in Psychology)
- 2010 Pi Mu Epsilon (International Honor Society in Mathematics)

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## Service Activities

### University Service

#### **Brown University**

- 2016-2018 Statistics in the Community (STATCOM) Director, Brown University Chapter
- 2015-2016 Student representative, Department of Biostatistics Academic Programs Committee
- 2015-2016 Student representative, School of Public Health Graduate Programs Committee

### Professional Service

- 2018 Abstract reviewer, *International Society of Pharmacoepidemiology Midyear Meeting*
- 2016 Chair, *Innovative Approaches to Causal Inference*, session at New England Statistics Symposium

### Review Service

- *Journal of Quantitative Analysis in Sports* (2)
- *PLOS One*

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## Memberships

- 2016-present American Statistical Association
  - 2016-2017 International Biometric Society (ENAR)
- 2017-present New England Statistical Society

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## Computing Skills

### Languages

- Proficient: R
- Intermediate: Python, SAS

### Markup

- L<sup>A</sup>T<sub>E</sub>X, Markdown