

# Jordan Dworkin

---

**Contact** 218 Blockley Hall  
423 Guardian Drive  
Philadelphia, PA 19104

@jddwor  
jdwor@upenn.edu  
jordandworkin.com

**Education** *University of Pennsylvania*, Philadelphia, PA 2015 –  
Biostatistics PhD Candidate  
MS in Biostatistics

*Haverford College*, Haverford, PA 2011 – 2015  
BS in Psychology, High Honors  
Minor in Statistics, Minor in Mathematics

**Awards** 2018, 19 Young Investigator Travel Grant, ACTRIMS Congress  
2018 Finalist, Blavatnik Family Fellowship  
2018 Student Poster Award, Statistical Methods in Imaging Conference  
2018 Finalist, Best Poster Presentation, ACTRIMS Congress  
2016, 17 Young Investigator Travel Grant, ECTRIMS Congress  
2015 Magna Cum Laude, Haverford College  
2015 Member Elect, Phi Beta Kappa Academic Honor Society  
2015 David Olton '64 Award in Psychology, Haverford College  
2014 Member Elect, Psi Chi International Honors Society in Psychology

**Scientific Memberships** Eastern North American Region of the International Biometric Society  
Student member of the North American Imaging in MS Cooperative  
Student member of the American Statistical Association

**Teaching** **Teaching assistant**  
Statistics in Experimental Design and Analysis (2017, 2018)  
*University of Pennsylvania*, Biomedical Graduate Studies  
Experimental Methods and Statistics (2013)  
*Bryn Mawr College*, Department of Psychology

**Guest lecturer**  
Programming and Computation for Biomedical Data Science (2019)  
*University of Pennsylvania*, Biostatistics Graduate Group  
R Workshop for Incoming Students (2017)  
*University of Pennsylvania*, Biostatistics Graduate Group

**Service** **Reviewer**  
*Journal of Neuroimaging*  
*NeuroImage: Clinical*  
*Annals of Neurology*

**Committee member**  
Student-Faculty Committee, *University of Pennsylvania*, Biostatistics Graduate Group  
Faculty Search Committee, *Haverford College*, Department of Psychology

- Publications**
- [1] **JD Dworkin**. Network-driven differences in mobility and optimal transitions among automatable jobs. *Royal Society Open Science*, 2019; 6 (7), 182124.
  - [2] **JD Dworkin**, RT Shinohara, DS Bassett. The emergent integrated network structure of scientific research. *PLoS One*, 2019; 14 (4), e0216146.
  - [3] **JD Dworkin**, P Sati, AJ Solomon, D Pham, R Watts, ML Martin, D Ontaneda, MK Schindler, DS Reich, RT Shinohara. Automated integration of multi-modal MRI for the probabilistic detection of central vein sign in white-matter lesions. *American Journal of Neuroradiology*, 2018; 39 (10), 1806 – 1813.
  - [4] **JD Dworkin**, RT Shinohara, DS Bassett. The landscape of *NeuroImage*-ing research. *NeuroImage*, 2018; 183, 872 – 883.
  - [5] J Roy, KJ Lum, B Zeldow, **JD Dworkin**, VL Re, MJ Daniels. Bayesian nonparametric generative models for causal inference with missing at random covariates. *Biometrics*, 2018; 74 (4), 1193 – 1202.
  - [6] **JD Dworkin**, KA Linn, I Oguz, GM Fleishman, R Bakshi, G Nair, PA Calabresi, RG Henry, J Oh, N Papinutto, D Pelletier, W Rooney, W Stern, NL Sicotte, DS Reich, RT Shinohara. An automated statistical technique for counting distinct multiple sclerosis lesions. *American Journal of Neuroradiology*, 2018; 39 (4), 626 – 633.
  - [7] **JD Dworkin**, V Zimmerman, RJ Waldinger, MS Schulz. Capturing naturally occurring emotional suppression as it unfolds in couple interactions. *Emotion*, 2018.
  - [8] **JD Dworkin**, EM Sweeney, MK Schindler, S Chahin, DS Reich, RT Shinohara. PREVAIL: Predicting recovery through estimation and visualization of active and incident lesions. *NeuroImage: Clinical*, 2016; 12, 293 – 299.
  - [9] **JD Dworkin**, A McKeown, JT Farrar, I Gilron, M Hunsinger, RD Kerns, MP McDermott, BA Rappaport, DC Turk, RH Dworkin, JS Gewandter. Deficiencies in reporting of statistical methodology in recent randomized trials of nonpharmacologic pain treatments: ACTION systematic review. *Journal of Clinical Epidemiology*, 2016; 72, 56 – 65.
  - [10] JS Gewandter, MP McDermott, A McKeown, **JD Dworkin**, SM Smith, RA Gross, M Hunsinger, AH Lin, BA Rappaport, ASC Rice, MC Rowbotham, MR Williams, DC Turk, RH Dworkin. Data interpretation in analgesic clinical trials with statistically non-significant primary analyses: An ACTION systematic review. *Journal of Pain*, 2015; 16, 3 – 10.

- Manuscripts in Progress**
- [1] **JD Dworkin**, KA Linn, TD Satterthwaite, A Raznahan, R Bakshi, RT Shinohara. Local inference for subject-level multivariate density neuroimaging outcomes. *Under review*.
  - [2] **JD Dworkin**, KA Linn, DS Bassett, RT Shinohara. Quantifying the extent of gender imbalance in neuroscience reference lists. *In preparation*.
  - [3] **JD Dworkin**, KA Linn, TD Satterthwaite, RT Shinohara. Accounting for motion-based missingness in neuroimaging research. *In preparation*.

- Other Articles**
- JD Dworkin** & I Blinderman. Why the tech sector may not solve America's looming automation crisis. *The Pudding*, 2018.
- JD Dworkin**. Stranger Things: Analyzing scripts to understand emotion. *Data Driven Journalism*, 2017.
- JD Dworkin**. A statistical curiosity voyage through the emotion of Stranger Things. *FreeCodeCamp*, 2017.
- JD Dworkin**. Could an alternative voting system have stopped Trump? *Towards Data Science*, 2016.

## Software & Programming

The landscape of neuroimaging research. R Shiny application, 2018.

Vesselr. R package, 2017.

Read, Act. Website and Google Chrome extension, 2017.

## Presentations

### Platform

2019 Americas Committee for Treatment and Research in MS (ACTRIMS) Congress

2018 Statistical Methods in Imaging (SMI) Conference

### Poster

2019 Joint Statistical Meetings (JSM)

Organization for Human Brain Mapping (OHBM) Annual Meeting

Eastern North American Region of the International Biometric Society (ENAR) Spring Meeting

ACTRIMS Congress

2018 European Committee for Treatment and Research in MS (ECTRIMS) Congress

Joint Statistical Meetings

ENAR Spring Meeting

ACTRIMS Congress

2017 ECTRIMS Congress (two posters)

SMI Conference

ENAR Spring Meeting

2016 North American Imaging in MS (NAIMS) General Meeting

ECTRIMS Congress