Jordan Daniel Dworkin

Contact

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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

Young Investigator Travel Grant, ACTRIMS Congress	2018, 2019
Finalist, Blavatnik Family Fellowship, UPenn Biomedical Graduate Studies	2018
Student Poster Award, Statistical Methods in Imaging Conference	2018
Finalist, Best Young Investigator Poster Presentation, ACTRIMS Congress	2018
Young Investigator Travel Grant, ECTRIMS Congress	2016, 2017
Magna Cum Laude, Haverford College	2015
Member Elect, Phi Beta Kappa Academic Honor Society	2015
David Olton ’64 Award in Psychology, Haverford College	2015
Member Elect, Psi Chi International Honors Society in Psychology	2014

Scientific Memberships

Eastern North American Region of the International Biometric Society	2017 –
Student member of the North American Imaging in MS Cooperative	2017 –
Student member of the American Statistical Association	2015 –

Experience

Researcher/Biostatistician — 2015 –
University of Pennsylvania, Statistical Imaging and Visualization Endeavor
Carried out independent research developing statistical and computational methods for the study of multiple sclerosis. Focused on methods utilizing data obtained from magnetic resonance imaging (MRI).

Research Assistant — 2013 – 2014
University of Rochester, Department of Anesthesiology
Reviewed literature, compiled data, performed analyses, and wrote manuscript for publication for a study investigating the quality of statistical reporting in randomized clinical trials for non-pharmacologic pain treatments.

Research Assistant — 2013 – 2014
Haverford College, Department of Psychology
Developed surveys and compiled data for longitudinal study of psychological and interpersonal development of college students.

Editorial Positions

Reviewer, NeuroImage: Clinical	2018 –
Reviewer, Annals of Neurology	2018 –

Committee & Group Memberships	*Member*, Penn Statistical Imaging and Visualization Endeavor **University of Pennsylvania**, Department of Biostatistics, Epidemiology, and Informatics	2015 –
	Member, Student-Faculty Feedback Committee **University of Pennsylvania**, Graduate Group in Epidemiology and Biostatistics	2017, 2018
	Member, Causal Inference Working Group **University of Pennsylvania**, Department of Biostatistics, Epidemiology, and Informatics & Department of Statistics	2015
	Member, Faculty Search Committee **Haverford College**, Department of Psychology	2015
Teaching	*Teaching Assistant*, Statistics in Experimental Design and Analysis **University of Pennsylvania**, Biomedical Graduate Studies Responsible for directing an active learning classroom, during which first-year biomedical graduate students were taught statistical techniques and tools for carrying out research.	2017, 2018
	Head Instructor, R Workshop for Incoming Students **University of Pennsylvania**, Biostatistics Graduate Group Developed and carried out workshop to teach incoming biostatistics and epidemiology graduate students important concepts and skills in the R Statistical Environment.	2017
	Teaching Assistant, Experimental Methods and Statistics **Bryn Mawr College**, Department of Psychology Responsible for co-running weekly lab sessions, during which undergraduate psychology students were taught statistical techniques and tools for carrying out research.	2013
Publications	**JD Dworkin**, V Zimmerman, RJ Waldinger, MS Schulz. Capturing naturally occurring emotional suppression as it unfolds in couple interactions. *Emotion*, 2018.	
	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.	
	JD Dworkin, RT Shinohara, DS Bassett. The landscape of *NeuroImage*-ing research. *NeuroImage*, 2018; 183, 872 – 883.	
	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.	
	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.

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.

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: ACTTION systematic review. *Journal of Clinical Epidemiology*, 2016; 72, 56 – 65.

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 ACTTION systematic review. *Journal of Pain*, 2015; 16, 3 – 10.

Manuscripts in Progress

JD Dworkin, RT Shinohara, DS Bassett. The emergent integrated network structure of scientific research. *Revision requested*.

JD Dworkin. Network-driven differences in mobility and optimal transitions among automatable jobs. *Under review*.

JD Dworkin, KA Linn, TD Satterthwaite, A Raznahan, R Bakshi, RT Shinohara. Local inference for subject-level multivariate density neuroimaging outcomes. *In preparation*.

JD Dworkin, KA Linn, RT Shinohara, DS Bassett. Persistent gendered citation patterns 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.

Other Projects

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

Vesselr. R package, 2017.

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

Platform Presentations

JD Dworkin, AJ Solomon, P Sati, D Pham, R Watts, MK Schindler, D Ontaneda, DS Reich, RT Shinohara. Automated detection of central vein sign in white-matter lesions for the diagnosis of MS. Upcoming invited presentation at: Americas Committee for Treatment and Research in MS (ACTRIMS) Congress, 2019 February 28 – March 2; Dallas, TX.

JD Dworkin, P Sati, AJ Solomon, D Pham, R Watts, ML Martin, D Ontaneda, MK Schindler, DS Reich, RT Shinohara. An automated probabilistic algorithm for the detection of central vein sign in multiple sclerosis. Oral presentation at: Statistical Methods in Imaging Conference, 2018 June 5 – 7; Philadelphia, PA.

Poster Presentations

JD Dworkin, R Bakshi, RT Shinohara. Multi-modal MRI intensity distributions reveal differences in normal-appearing white matter between MS subtypes. Poster presentation at: European Committee for Treatment and Research in MS (ECTRIMS) Congress, 2018 October 10 – 12; Berlin, Germany.

JD Dworkin, AJ Solomon, RT Shinohara. Distance-based tests for group differences in non-local processes on MRI. Poster presentation at: Eastern North American Region of the International Biometric Society (ENAR) Spring Meeting, 2018 March 25 – 28; Atlanta, GA.

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. Poster presentation at: ACTRIMS Congress, 2018 February 1 – 3; San Diego, CA.

JD Dworkin, I Oguz, KA Linn, GM Fleishman, DS Reich, P Yushkevich, RT Shinohara. Statistical separation of spatially confluent but temporally distinct white-matter lesions. Poster presentation at: ECTRIMS Congress, 2017 October 25 – 28; Paris, France.

JD Dworkin, AJ Solomon, P Sati, D Pham, R Watts, MK Schindler, D Ontaneda, DS Reich, RT Shinohara. Automated detection of central vein sign in white-matter lesions for the diagnosis of MS. Poster presentation at: ECTRIMS Congress, 2017 October 25 – 28; Paris, France.

JD Dworkin, AJ Solomon, P Sati, D Pham, R Watts, MK Schindler, D Ontaneda, DS Reich, RT Shinohara. Automated detection of central vein sign in white-matter lesions for the diagnosis of MS. Poster presentation at: Statistical Methods in Imaging Conference, 2017 May 31 – June 2; Pittsburgh, PA.

JD Dworkin, EM Sweeney, MK Schindler, S Chahin, DS Reich, RT Shinohara. PREVAIL: Predicting recovery through estimation and visualization of active and incident lesions. Poster presentation at: ENAR Spring Meeting, 2017 March 12 – 15; Washington, DC.

JD Dworkin, EM Sweeney, MK Schindler, S Chahin, DS Reich, RT Shinohara. PREVAIL: Predicting recovery through estimation and visualization of active and incident lesions. Poster presentation at: North

American Imaging in Multiple Sclerosis (NAIMS) General Meeting, 2016 November 27 – 28; Toronto, Canada.

JD Dworkin, EM Sweeney, MK Schindler, S Chahin, DS Reich, RT Shinohara. PREVAIL: Predicting recovery through estimation and visualization of active and incident lesions. Poster presentation at: ECTRIMS Congress, 2016 September 14 – 17; London, UK.

JD Dworkin, MS Schulz, V Zimmerman, RJ Waldinger. Capturing emotional suppression as it naturally unfolds in couple interactions. Poster presentation at: 2nd Annual Conference of the Society for Affective Science; 2015, April 9 – 11; Oakland, CA.