

Noah D. Brenowitz

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Education

- 2012–2017 **Ph.D. Candidate**, *Mathematics and Atmosphere-Ocean Science*.
Center for Atmosphere-Ocean Science (CAOS), Courant Institute of Mathematical Sciences
New York University Advisor: Andrew J. Majda
- 2007–2011 **B.S.**, *Statistics and Mathematics*.
Stern School of Business
New York University
Summa cum Laude with highest honors in Mathematics

Work Experience

- 2017–Present **Post-doctoral Research Associate**, *University of Washington*.
Mentors: Christopher S. Bretherton and J. Nathan Kutz
- 2013–2017 **Research Assistant**, *New York University*.
Supervisor: Andrew J. Majda
- 2011–2012 **Post-baccalaureate IRTA**, *National Institutes of Health*.
Section on Functional Imaging
Laboratory of Brain and Cognition, National Institute of Mental Health
Supervisors: Peter Bandettini and Souheil Inati
◦ Analyzed of functional Magnetic Resonance Imaging (fMRI) data

Honors, Awards, and Fellowships

- 2017 Moore/Sloan & WRF Innovation in Data Science Postdoctoral Fellowship, University of Washington
- 2012–2017 Henry M. MacCracken Fellowship, New York University
- 2011–2012 Intramural Research Training Award (IRTA), National Institutes of Health
- 2011 Graduated *Summa cum Laude* with highest honors in Mathematics, New York University
- 2010 *Beta Gamma Sigma* undergraduate business honors society
- 2008–2011 Dean's List, Stern School of Business, New York University

Refereed Articles

- 2018 Brenowitz, N. D. and C. S. Bretherton. “Prognostic Validation of a Neural Network Unified Physics Parameterization”. In: *Geophysical Research Letters* 45.12, pp. 6289–6298. DOI: 10.1029/2018gl078510.
- Brenowitz, N. D., A. J. Majda, and Q. Yang. “The Multiscale Impacts of Organized Convection in Global 2D cloud-resolving Models”. In: *Journal of Advances in Modeling Earth Systems*. DOI: 10.1029/2018ms001335.
- 2016 Brenowitz, N. D., Y. Frenkel, and A. Majda. “Non-local convergence coupling in a simple stochastic convection model”. In: *Dynamics of Atmospheres and Oceans* 74, pp. 30–49.
- Brenowitz, N. D., D. Giannakis, and A. Majda. “Nonlinear Laplacian spectral analysis of Rayleigh–Bénard convection”. In: *Journal of Computational Physics* 315, pp. 536–553.
- 2015 Brenowitz, N. D., Y. Frenkel, and A. J. Majda. “Enhanced persistence of equatorial waves via convergence coupling in the stochastic multicloud model”. In: *Journal of the Atmospheric Sciences* 72.12, pp. 4701–4720.
- 2013 Kundu, P., N. D. Brenowitz, V. Voon, Y. Worbe, P. E. Vértés, S. J. Inati, Z. S. Saad, P. A. Bandettini, and E. T. Bullmore. “Integrated strategy for improving functional connectivity mapping using multiecho fMRI”. In: *Proceedings of the National Academy of Sciences* 110.40, pp. 16187–16192.
- 2012 Gonzalez-Castillo, J., Z. S. Saad, D. A. Handwerker, S. J. Inati, N. Brenowitz, and P. A. Bandettini. “Whole-brain, time-locked activation with simple tasks revealed using massive averaging and model-free analysis”. In: *Proceedings of the National Academy of Sciences* 109.14, pp. 5487–5492.

Talks

- 2016 *NLSA of Rayleigh–Bénard Convection II, MURI Workshop*, January 29, 2016
- 2015 *Enhanced Persistence of equatorial waves via convergence coupling in the stochastic multicloud model*, Stochasticity and Organization of Tropical Convection, Banff International Research Station, Canada, April 29, 2015
- 2014 *NLSA of Rayleigh–Bénard Convection I, MURI Workshop*, January 21, 2014

Posters

- 2015 *Non-local convergence coupling in stochastic models for tropical convection*, Monsoons and the ITCZ Workshop, Columbia University, New York, Sept. 17, 2015

Teaching Experience

- Spring 2016 Recitation Leader (TA) for *Fundamental Dynamics of the Earth’s Atmosphere and Climate* (undergraduate)
- Spring 2015 Grader for *Basic Probability* (graduate)

2013–2015 Private tutor for graduate and undergraduate courses including Calculus, Statistics, and Probability

Leadership Experience

2016 Organized CAOS Student Seminar
2012–2015 Organized CAOS Student Monday Lunch

Technical Skills

Programming Languages Proficient: Python, Fortran 90, MATLAB, Mathematica, julia, shell scripting (sh/bash)

Some Experience: R, C/C++, Clojure, OpenMP, MPI

Operating Systems Linux, Macintosh, Windows

Software L^AT_EX, Emacs, Vim, Git, Word, Excel, Powerpoint

Interests

Rock climbing (outdoor/indoor), alpine skiing, hiking, backpacking, bread baking, photography, science fiction and fantasy novels