

Jonah Bloch-Johnson

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EDUCATION

University of Chicago (2012 - *expected Summer 2018*), Ph.D. candidate in Geophysical Sciences. Supervisors: Dorian Abbot, Raymond T. Pierrehumbert
Topic: time-varying radiative feedbacks
Columbia University (2005 - 2008), B.A. in Mathematics and Music.
Oberlin College and Conservatory (2003 - 2005), pursued B.A. in Mathematics and B.M. in Music Composition.

PUBLICATIONS

Bloch-Johnson, J., T. Cronin, E. Tziperman, and D. S. Abbot. Feedback temperature dependence in a perturbed physics ensemble (*in prep.*)
Bloch-Johnson, J., M. Rugenstein, and D. S. Abbot. Spatial radiative feedbacks from internal variability (*in prep.*)
Rugenstein, M., **J. Bloch-Johnson.**, J. Gregory, T. Andrews, T. Mauritsen, C. Li, J.-L. Dufresne, G. Danabasoglu, A. Jonko, L. Cao, G. Schmidt, A. Abe-Ouchi, S. Yang, T. Frölicher, D. Paynter, and R. Knutti. Approaching equilibrium in climate models under elevated forcing (*submitted to Nature Geoscience*)
Abbot, D., **J. Bloch-Johnson**, J. Checlair, N. Farahat, R. J. Graham, D. Plotkin, P. Popovic, and F. Spaulding-Astudillo (2018). Decrease in hysteresis of planetary climate for planets with long solar days. *The Astrophysical Journal*, ([link](#)).
Köhler, P., L. B. Stap, A. S. von der Heydt, B. de Boer, R. S. W. van de Wal, and **J. Bloch-Johnson** (2017). A state-dependent quantification of climate sensitivity based on paleodata of the last 2.1 million years. *Paleoceanography*, 32. ([link](#))
Bloch-Johnson, J., D. S. Abbot, and R. T. Pierrehumbert (2015). Feedback temperature dependence determines the risk of high warming. *Geophysical Research Letters*, 42, 12. ([link](#))

SERVICE

LongRunMIP, 2016-present; Co-organizer, worked with Maria Rugenstein to compile an archive of millennial-scale coupled climate runs; ([link](#))
Rosbypalooza, 2016; Chicago, IL - Head organizer of inaugural workshop bringing sixty climate scientists and statisticians for a lecture series and a hackathon. ([link](#))
LongRunMIP Workshop, 2016; Hamburg, Germany - Co-organizer of first meeting of participants in the LongRunMIP archive.

Climate Data Hackathon at University of Chicago, 2014; Chicago, IL - Co-organizer of day-long hackathon at the Department of the Geophysical Sciences.

MCRN Climate Data Hackathon, 2014; Chapel Hill, NC - Head organizer of two-day hackathon at the Math Climate Research Network annual meeting.

Reviewer for *Journal of Climate*, *Geophysical Research Letters*, *Climate of the Past*, *Geoscientific Model Development*

WORKSHOPS

Climatepalooza, 2017; Boulder, CO; helped develop a statistical model of rainfall in West Africa using rain gauge and satellite data in collaboration with David Legates and Nathan Lenssen.

Urbino Summer School for Paleoclimate, 2015; Urbino, Italy; learned about proxies used to reconstruct climate from across the Cenozoic.

CESM Tutorial, 2013; Boulder, CO; learned how to run and alter NCAR's CESM climate model.

GRANTS, AWARDS, AND FELLOWSHIPS

NSF Grant 1623064, Abbot D., **Bloch-Johnson J.**, Cronin T., and Tziperman E.; Collaborative Research: Using a Hierarchy of Models to Constrain the Temperature Dependence of Climate Sensitivity

NSF USSP Fellowship, for attendance of the Urbino Summer School for Paleoclimate (Urbino, Italy; 2015).

SELECTED PRESENTATIONS

Oral presentation, Climate feedbacks from natural variability, *AMS Annual Meeting* (Austin, TX; 2018).

Poster, Nonlinear equilibrium climate sensitivity in a perturbed physics ensemble, *AGU Fall Meeting* (New Orleans, LA; 2017).

Departmental Seminar, Time-varying climate feedbacks, *University of Wisconsin, Madison* (Madison, WI; 2017).

Seminar, Feedback temperature-dependence and the risk of extreme global warming, *ETH Zurich* (Zurich, Switzerland; 2016).

Poster, Feedback temperature dependence can cause extreme warming under anthropogenic emissions., *AGU Fall Meeting* (San Francisco, CA; 2015).

Invited seminar, Feedback Temperature Dependence: Ramifications for the Long Tail of Climate Sensitivity and the PETM, *Max Planck Institute for Meteorology* (Hamburg, Germany; 2015).

Invited online seminar, Global warming could be nonlinear, *MCRN Colloquium webinar* (Math Climate Research Network; 2015).

Oral presentation, The Temperature Dependence of Feedbacks and Equilibrium Climate

Sensitivity, *AMS Sectional Meeting* (Washington, DC; 2015).
Oral presentation, The Temperature Dependence of Feedbacks and Equilibrium Climate Sensitivity, *AGU Fall Meeting* (San Francisco, CA; 2014).

TEACHING AND OTHER SKILLS

Teaching

2015-2018	TA, The Atmosphere
2017	TA, Global Energy & Climate Challenge
2014	TA, Natural Hazards
2012-2013	TA and software developer, Global Warming: Understanding the Forecast

Outreach, Pint of Science (2016)

Programming languages: fluent in Julia, Python, Javascript (jQuery, d3.js), Ruby (creator of the Crewait gem, with 30,000+ downloads) and Rails web-framework; comfortable in Fortran, R, Matlab

PREVIOUS WORK EXPERIENCE

Almanac Environmental Services, Inc., *co-founder, CEO* developed web applications that aided environmentally conscious purchasing decisions (New York, NY; 2008-2011).

Freelance Web Development, built online tutoring website (including a payment system and integration with video conferencing), quizzes and games (New York, NY; 2012).