

## Jessica Toby Gersony

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A: Organismic and Evolutionary Biology  
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### Education

- 2015-Present Harvard University, Cambridge, MA  
PhD Student in Organismic and Evolutionary Biology  
Advisor: Dr. Noel Michele Holbrook
- 2011-2014 Columbia University, New York, NY  
BA in Ecology, Evolution, and Environmental Biology  
Thesis: "Greater shrub dominance enhances canopy nitrogen concentration in the arctic tundra"  
Major G.P.A.: 3.7  
Overall G.P.A.: 3.6
- 2010-2011 Oberlin College, Oberlin, OH

### Fellowships and Awards

- 2014-2020 Fellow, National Science Foundation Graduate Research Fellowship Program  
Spring 2014 Deans list, Columbia University  
Fall 2013 Deans list, Columbia University  
Fall 2010 John Frederick Oberlin Scholarship: \$15,000/year

### Manuscripts in Preparation

- (3) **Gersony J. T.**, Case M. Prager, Natalie T. Boelman, Jan U.H. Eitel, Laura Gough, Heather E. Greaves, Kevin L. Griffin, Troy S. Magney, Shannan K. Sweet, Lee A. Vierling, Shahid Naeem. Scaling thermal properties from the leaf to the canopy in the Alaskan arctic tundra
- (2) Naeem N., C. M. Prager, **J. T. Gersony**, and K. L. Griffin. Maximal attainable leaf temperature (MALT) in an arctic ecosystem under naturally varying conditions: The "Thermodome" as a tool for quantifying complex thermal environments.
- (1) **Gersony J. T.**, A. Gregg, E. Yee, S. G. Bruner, and S. Naeem. Differences in the ecological functioning of green roofs: Comparing native and sedum vegetation communities in New York City.

### Conference Presentations and Posters

- (2) Shahid Naeem, Natalie T. Boelman, Jan U.H. Eitel, **Jessica Gersony**, Heather E. Greaves, Kevin L. Griffin, Troy S. Magney, Case M. Prager, and Lee A. Vierling. "Thermal ecology: The influence of tundra vegetation on local thermal environments and the fate of the arctic permafrost." Ecological Society of America Annual Meeting, Baltimore, MD, 2015.
- (1) **Gersony J.T.**, Shannan K. Sweet, Kevin L. Griffin, and Natalie T. Boelman. "Greater shrub dominance enhances canopy nitrogen concentration in the arctic tundra." Columbia University Environmental Senior Thesis Poster Session 2014.

## Research Experience

- Summer 2014 - Fall 2015 Research Technician, Toolik Field Station, Alaska (TFS); Columbia University (CU)  
Employer: Dr. Shahid Naeem
- 2013-2014 Student Researcher, Columbia University  
Mentors: Dr. Kevin Griffin and Dr. Natalie Boelman
- Summer 2013 Research Assistant, Toolik Lake Field Station, Alaska (TFS)  
PI's: Dr. Natalie Boelman, Dr. Laura Gough, Dr. John Wingfield

## Relevant Coursework and Skills

- 1 Year of: Biology (organismal biology and ecology) with Lab, Chemistry, Plant Ecophysiology of Alaska Seminar, Spanish
- 1 Semester of: Physics, Genetics, Climate Science with Lab, Geology with Lab, Calculus, Statistics, Environmental Studies, Plant Ecophysiology with Lab, Conservation Biology, Ethics of Sustainable Development
- Experienced in: Infrared image analysis (FLIR Thermal Imager, FLIR and ImageJ software, DJI Imaging Unmanned Aerial Vehicle), caloric analysis (Bomb calorimetry, ashing in muffle furnace), carbon/nitrogen analysis (Thermo Scientific Flash 2000 CHN Analyzer), leaf level photosynthetic measurements (LiCOR 6400), chlorophyll fluorescence measurements (Hansatech Fluorescence Monitoring System), stomatal conductance measurements, ASD spectral measurements, stomatal density counts, microbalances, leaf area meters, ball mill grinding, data-logger programming (LoggerNet), Microsoft Office, R, soldering, vegetation identification, gas analyzers, navigating with GPS and compass, plant propagation, conversational Spanish.

## References

- Dr. Kevin Griffin Professor at Columbia University - Professor  
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- Dr. Shahid Naeem Professor at Columbia University - Employer  
E: sn2121@columbia.edu P: 212-854-4499
- Dr. Natalie Boelman Researcher at Lamont-Doherty Earth Observatory - Senior Thesis Advisor  
E: nboelman@ldeo.columbia.edu P: 845-365-8480