

# Christopher W. Callahan

Dartmouth College  
Program in Ecology, Evolution, Environment, and Society  
012 Fairchild Hall, Hanover, NH 03755

Christopher.W.Callahan.GR@dartmouth.edu  
ccallahan45.github.io  
@cwcallahan45

## EDUCATION

---

<b>Dartmouth College</b>	Hanover, NH, USA
PhD, Ecology, Evolution, Environment, and Society (in progress)	2018 – 2023
Advisor: Justin Mankin	
<b>Northwestern University</b>	Evanston, IL, USA
BA, Environmental Science, with honors	2014 – 2018

## PEER-REVIEWED PUBLICATIONS

---

1. **Callahan, C.W.**, Schnell, J.L., & Horton, D.E. (2019) “Multi-index attribution of extreme winter air quality in Beijing, China.” *Journal of Geophysical Research: Atmospheres*, 124, pp. 4567–4583.  
doi:10.1029/2018JD029738

## MANUSCRIPTS IN PROGRESS

---

3. **Callahan, C.W.**, Chen, C., Rugenstein, M., Bloch-Johnson, J., Yang, S., & Moyer, E.J. (In revision) “Robust decrease in ENSO amplitude under long-term warming.” *Nature Climate Change*

2. **Callahan, C.W.** & Mankin, J.S. (In revision) “The influence of internal climate variability on projections of synoptically driven Beijing haze.” *Geophysical Research Letters*

1. Erbaugh, J.T., **Callahan, C.W.**, Finger Higgins, R., DeSiervo, M., Bolger, D.T., Cox, M., Howarth, R.B. (In review) “Sociotechnical equilibrium and transitions.” *Current Opinion in Environmental Sustainability*

## PRESENTATIONS

---

*First-author presentations only*

6. **Callahan, C.W.** & Mankin, J.S. (2020) “On the use of large ensembles for studying climate and air quality.” AMS Annual Meeting (Oral)

5. **Callahan, C.W.** & Mankin, J.S. (2019) “National attribution of climate damages under deep uncertainty.” AGU Fall Meeting (Poster)

4. **Callahan, C.W.** & Mankin, J.S. (2019) “The influence of internal variability on synoptically driven Beijing haze.” US CLIVAR Large Ensembles Workshop (Oral)

3. **Callahan, C.W.** & Mankin, J.S. (2018) “Linkages between synoptic circulation and poor air quality in Beijing.” AGU Fall Meeting (Poster)

2. **Callahan, C.W.**, Dittenbach, N.S., & Horton, D.E. (2018) “Multi-index attribution of Beijing’s 2013 Airpocalypse.” Northwestern Computational Research Day (Poster)

1. **Callahan, C.W.**, Dittenbach, N.S., & Horton, D.E. (2017) “Multi-index attribution of Beijing’s 2013 Airpocalypse.” AGU Fall Meeting (Poster)

## AWARDS, GRANTS, & FELLOWSHIPS

---

NSF Graduate Research Fellow	2020 – 2023
Department of Education GAANN Fellowship	2018 – 2019
Best Senior Thesis, Northwestern Program in Environmental Sciences	2018
Northwestern Conference Travel Grant	2017
AGU Fall Meeting Student Travel Grant	2017
Hardy Scholarship	2016 – 2018
Milton S. Florsheim Award for Excellence in Debate	2015, 2016, 2017, 2018
National Merit Scholarship	2014 – 2018

## TEACHING

---

Teaching Assistant, BIOL 16: Ecology Professor: Caitlin Hicks Pries	Spring 2020, Fall 2018
Teaching Assistant, ENVS 12: Energy and the Environment Professor: Elizabeth Wilson	Winter 2020
Teaching Assistant, ENVS 15: Environmental Issues of the Earth's Cold Regions Professor: Ross Virginia	Spring 2019

## PROFESSIONAL DEVELOPMENT

---

Community Terrestrial Systems Model tutorial, hosted by the National Center for Atmospheric Research.	February 2019
“Lessons in Professional Conduct at Field Sites,” workshop led by Katie Hinde and Robin Nelson, hosted by Dartmouth College.	October 2018

## OTHER SKILLS

---

Computing skills: Python/Jupyter, R, NCL, MATLAB, LaTeX, Unix/bash

## PROFESSIONAL ORGANIZATIONS

---

American Geophysical Union	2017 – Present
----------------------------	----------------