

# OLIVIA E. CLIFTON

Lamont Doherty Earth Observatory  
61 Route 9W, Palisades, NY, 10964

oclifton@ldeo.columbia.edu  
office phone: (845) 365-8319  
<http://www.oliviACLifton.com>

## **Education**

M.Phil. in Earth and Environmental Sciences, Columbia University, February 2017.

M.A. in Earth and Environmental Sciences, Columbia University, March 2015.

B.S. in Mathematics, University of Wisconsin-Madison, December 2012.

## **Professional Experience**

**Graduate Researcher** Fiore Atmospheric Chemistry Group, 2013-present.

**Research Assistant** with Dr. Arlene Fiore, Lamont Doherty Earth Observatory, 2013.

**Undergraduate Researcher** with Dr. Tracey Holloway, Center for Sustainability and the Global Environment, University of Wisconsin-Madison, 2011-2012.

**Intern** NASA Student Airborne Research Program, Palmdale, CA & Irvine, CA, summer 2012.

## **Fellowships and Honors**

- First Place Oral Presentation, Third Conference on Atmospheric Biogeosciences, 06/2016.
- 2015 NSF Graduate Research Fellowship.
- IGAC Travel Grant for CCMI Workshop, 03/2014.
- 2014 NSF Graduate Research Fellowship Honorable Mention.
- UW-Madison Holstrom Environmental Scholarship, 05/2011.
- Dean's List, UW-Madison, 2009.

## **Peer-reviewed Publications**

1. Clifton, O. E., A. M. Fiore, J. W. Munger, S. Malyshev, L. W. Horowitz, E. Shevliakova, F. Paulot, L. T. Murray, K. L. Griffin (2017), Interannual variability in ozone removal by a temperate deciduous forest, *Geophysical Research Letters*, 44, doi:10.1002/2016GL070923.
2. Clifton, O. E., A. M. Fiore, G. Correa, L. W. Horowitz, and V. Naik (2014), Twenty-first century reversal of the surface ozone seasonal cycle over the northeastern United States, *Geophysical Research Letters*, 41, doi:10.1002/2014GL061378. Featured as an AGU EOS Research Spotlight February 18, 2015.
3. Fiore, A. M., J. T. Oberman, M. Y. Lin, L. Zhang, O. E. Clifton, D. J. Jacob, V. Naik, L. W. Horowitz, J. P. Pinto, and G. P. Milly, Estimating North American background ozone in U.S. surface air with two independent global models: Variability, uncertainties, and recommendations, *Atmospheric Environment*, 96, doi:10.1016/j.atmosenv.2014.07.045.

## **Professional Activities**

**Member** LDEO Colloquium Committee, 2014-2016.

**Contributing Author** IPCC Working Group 1 Chapter 11, 2013.

**Reviewer** *Atmospheric Chemistry and Physics*, *Journal of Geophysical Research-Atmospheres*

**Member** American Geophysical Union (since 2012), Earth Science Women's Network (since 2012), Women In Science at Columbia (since 2013), American Meteorological Society (since 2016), European Geophysical Union (since 2016)

## **Outreach Activities**

**Presenter** LDEO Open House, 10/2014, 10/2016.

**Presenter** Columbia University EESC UN2100 Field Trip to LDEO, 11/2015, 10/2016.

**Mentor** LDEO Secondary School Field Research Program, 2014, 2016.

**Presenter** Earth2Class, Air quality-climate-vegetation connections, 01/2016.

# OLIVIA E. CLIFTON

**Panelist** Inspiring Voices: STEAM Working Professionals Panel, Connelly School of the Holy Child, Potomac, MD, 01/2015.

**Presenter** Pascack Hills High School Girls' Climate Stewards Club, Palisades, NY, 11/2014.

**Exhibitor** PPPL Young Women's Conference, Princeton, NJ, 03/2014.

**Experimental Leader** WISC Girls' Science Day, 11/2013.

**Presenter** Expand Your Horizons: Young Women Exploring Math and Science Careers, Madison, WI, 11/2012.

## **Conference and Workshop Presentations (P is for poster presentations)**

- *Interannual variability in ozone dry deposition at Harvard Forest*, **2017 Annual Harvard Forest Ecology Symposium**, Petersham, MA, 03/2017. (P)
- *Inter-annual variability in ozone dry deposition over a deciduous forest*, **2016 IGAC Science Conference**, Breckenridge, CO, 09/2016. (P)
- *Hierarchy of models for investigating role of dry deposition on air quality-climate connections*, **ISSAOS 2016 Advancing Programming Techniques for the Earth System Science**, Gran Sasso Science Institute (GSSI), L'Aquila, Italy, 08/2016. (P)
- *Non-stomatal uptake controls inter-annual variability in ozone dry deposition at a northern mid-latitude broadleaf deciduous forest*, **Third Conference on Atmospheric Biogeosciences**, Salt Lake City, UT, 06/2016.
- *Phenological controls on inter-annual variability in ozone dry deposition velocity*, **EGU 2016 Conference**, Vienna, Austria, 04/2016.
- *21<sup>st</sup> Century Reversal of the Surface Ozone Seasonal Cycle over the Northeastern United States*, **NASA ACAST 7 Meeting**, Harvard University, 06/2014. (P)
- *21<sup>st</sup> Century Reversal of the Surface Ozone Seasonal Cycle over the Northeastern United States*, **GLODECH Meeting**, Lamont-Doherty Earth Observatory, 05/2014.
- *21<sup>st</sup> Century Reversal of the Surface Ozone Seasonal Cycle over the Northeastern United States*, **Third CMI Workshop**, Lancaster University (UK), 05/2014. (P; presented by Dr. Arlene Fiore)
- *21<sup>st</sup> Century Reversal of the Surface Ozone Seasonal Cycle over the Northeastern United States*, **First Year Colloquium**, Lamont-Doherty Earth Observatory, 04/2014.
- *Shifting seasonal cycles of surface ozone: the role of regional vs. global emission changes in Northeast & Mountainous West U.S.*, **NASA ACAST 6 Meeting**, Rice University, 01/2014. (P; presented by Dr. Arlene Fiore)
- *Shifting seasonal cycles of surface ozone: the role of regional vs. global emission changes in Northeast & Mountainous West U.S.*, **AGU Fall 2013 Meeting**, 12/2013. (P; presented by Dr. Lee T. Murray)
- *Shifting seasonal cycles of surface ozone: the role of regional vs. global emission changes in Northeast & Mountainous West U.S.*, **New York State Energy Research and Development Authority (NYSERDA) Environmental Monitoring, Evaluation and Protection in New York: Linking Science and Policy 2013 Conference**, 11/2013. (P)
- *Shifting seasonal cycles of surface ozone: the role of regional vs. global emission changes*, **Columbia University Atmospheric Chemistry Symposium**, New York, NY, July 2013.
- *Estimating Western U.S. Oil & Gas Emissions with OMI NO<sub>2</sub> Data*, **AGU Fall 2012 Meeting**, 12/2012. (P)
- *Modeling time evolution of C5 alkyl nitrates for use as indicator species of crude oil emissions in southern California*, **NASA Student Airborne Research Program Student Final Presentations**, 08/2012.
- *Estimating Western U.S. Oil & Gas Emissions with OMI NO<sub>2</sub> Data*, **NASA ACAST 3 Meeting**, University of Wisconsin-Madison, 06/2012. (P)

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- *How do power plant emissions of  $NO_2$  change during summer heat waves?* **Center for Climactic Research/Center for Sustainability and the Global Environment Joint Symposium**, UW-Madison, 03/2012. (P)

### **Teaching Experience**

- Guest Lecturer, *Introduction to Atmospheric Chemistry*, EESC GU4924, Columbia University, spring 2017.
- Teaching Assistant, *Earth's Environmental System: Climate*, EESC UN2100, Columbia University, fall 2016.
- Teaching Assistant, *Quantitative Models of Climate-Sensitive Natural and Human Systems*, EESC GU4401, Columbia University, fall 2014.
- Teaching Assistant, *Introduction to Atmospheric Chemistry*, EESC GU4924, Columbia University, spring 2014.