

Eric M. Leibensperger

Ithaca College · Department of Physics & Astronomy
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Education

Ph.D. Harvard University, School of Engineering and Applied Sciences, Applied Physics
Thesis: Interaction of Air Quality and Climate: Consequences of US Emissions Controls
Advisor: Daniel J. Jacob

S.M. Harvard University, School of Engineering and Applied Sciences, Applied Physics

B.A. Ithaca College, Chemistry and Physics

Teaching Experience

Assistant Professor

Fall 2022
Spring 2022
Spring 2022
Spring 2022
Fall 2021
Spring 2021
Spring 2021, 2023
Fall 2020, 2021
Fall 2020, 2022
Fall 2020-Spring 2023
Summer

Ithaca College - Department of Physics & Astronomy

PHYS 101 - Introduction to Physics
PHYS 280 - Learning Assistant Practicum in Physics
PHYS 470 - Selected Topics in Advanced Physics (Fluid Mechanics)
PHYS 498 - Senior Thesis II
PHYS 497 - Senior Thesis I
PHYS 360 - Advanced Physics Laboratory
PHYS/ENVS 147 - Time to Act: The Science & Politics of Climate Change
PHYS 301 - Mathematical Methods of Physics
PHYS 305/323 - Electromagnetism
17 Independent Student Research Projects
Summer Scholar Research Students (2021 - 2; 2022 - 1)

Assistant/Associate Professor (Tenured)

Spring 2019
Fall 2016-2019; Spring 2018
Fall 2014-2019
Spring 2014, 2016-2018, 2020
Spring 2013, 2015, 2017, 2019
Fall 2012-2019; Spring 2013-2020
Fall 2012-2015; Spring 2013-2016
Fall 2012, 2013
Fall 2012-Spring 2020

SUNY Plattsburgh - Center for Earth and Environmental Science

HON 176 - Honors Seminar: War on Science (Gen. Ed.)
ENV 206 - Environmental Technology
GEL 391 - Physical Oceanography and Limnology
ENV 366 - Global Climate Change (Gen. Ed.)
ENV/GEL 406 - Climate Change Science
ENV/GEL 306 - Atmospheric Processes
ENV 340 - Environmental Science Seminar
GEL 291 - Oceanography
Research Mentor to a total of 31 Undergraduate Students

Module Co-author

2014-2017

Carleton College Science Education Resource Center (SERC)

Interdisciplinary Teaching about Earth for a Sustainable Future (InTeGrate) module "Regulating Carbon Emissions to Mitigate Climate Change" with Pinar Batur (Vassar), Robyn Smyth (Bard), Curt Gervich (SUNY Plattsburgh), Gautam Sethi (Bard), Sandra Penny (Bard)

Teaching Fellow

Fall 2008
Spring 2008; 2009
Fall 2007

Harvard University

EPS 208 - Physics of Climate
ES 6 - Environmental Science and Technology (Head TF)
EPS 133 - Intro. to Atmospheric Chemistry

Research Co-Mentor

Summer 2007; 2008

Harvard University

Summer Research Experience for Undergraduates (REU)

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Other Positions Held

Independent Consultant for Model Development

Summer 2015 - Fall 2016

Harvard University

School of Engineering and Applied Science

Postdoctoral Associate

Spring 2011 - Fall 2012

Massachusetts Institute of Technology

Department of Earth, Atmospheric and Planetary Science

Advisor: R. Alan Plumb

Research Topic: Modeling of stratospheric transport and dynamics

Graduate Research Assistant

Fall 2005 - Spring 2011

Harvard University

School of Engineering and Applied Science

Advisor: Daniel J. Jacob

Research Topic: Atmospheric chemistry and climate

Research Assistant

Summer 2005

Ithaca College

Department of Physics

Advisor: Beth Clark

Research Topic: Photometric modeling of asteroid Eros 443

Dana Intern/Undergraduate Researcher

Summer 2004

Ithaca College

Department of Physics

Advisor: Luke Keller

Research Topic: Composition of protostellar debris disks

Lewis' Education and Research Collaborative Intern

Summer 2003

NASA Glenn Research Center

Advisor: Michael A. Meador

Research Topic: Synthesis of polyacenes through photoenolization

Honors and Awards

2022	Sigma Xi , Full Member of Scientific Research Society
2019	SUNY Chancellor's Award for Scholarship and Creative Activities
2018	Featured Scholar , SUNY Plattsburgh Celebration of Scholarship
2008 - 2011	US EPA Science to Achieve Results (EPA-STAR) , Graduate Fellowship
2008	Harvard University Certificate of Distinction in Teaching
2005	Sigma Xi , Associate Member of Scientific Research Society
2004	Dana Internship Award at Ithaca College
2004	Sigma Pi Sigma , Physics Honor Society
2002	Ithaca College First Year Award in Mathematics
2001 - 2005	Grimley Trust Scholarship
2001 - 2005	Ithaca College Dean's Scholarship

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Funding | \$568,501 in external funds since Fall '18 (Ithaca College/SUNY Plattsburgh portions)
\$845,895 in external funds total (Ithaca College/SUNY Plattsburgh portions)

2022 - 2025	New York State Department of Agriculture and Markets "Methane and nitrous oxide measurement on NYS dairy farms and manure systems" Principal Investigator with Lauren Ray (Cornell) - \$190,498 awarded to Ithaca College
2022 - 2025	New York State Energy Research and Development Authority "Long-Term Monitoring of Methane within New York State Phase III: Harmonizing <i>in-situ</i> and satellite observations to constrain the methane source" Principal Investigator with Lee Murray (Rochester) - \$31,226 awarded to Ithaca College
2022 - 2023	New York State Energy Research and Development Authority "Modification to Observations in Support of Methane Source Characterization within New York State" Principal Investigator - \$48,182 awarded to Ithaca College
2021 - 2023	New York State Energy Research and Development Authority "Mobile Laboratory Measurements of Methane, Ethane, and CO pollutants from Landfills, Oil and Gas Systems and Other Sources in New York State" Principal Investigator with James Schwab (Albany), Lee Murray (Rochester) and Roisin Commane (Columbia) - \$63,691 awarded to Ithaca College
2020 - 2021	New York State Energy Research and Development Authority "Observations in Support of Methane Source Characterization within New York State" Principal Investigator - \$49,913 awarded to Ithaca College
2019 - 2021	New York State Energy Research and Development Authority "Long-Term Monitoring of Methane within New York State Phase II: Assessing Trends in Sources and Characterizing Hot Spots" Principal Investigator with Lee Murray (Rochester) and Roisin Commane (Columbia) - \$40,585 awarded to Ithaca College/SUNY Plattsburgh
2019 - 2020	National Oceanic and Atmospheric Administration Lake Champlain Sea Grant "Upwelling in South Main Lake - Identifying Events and Assessing Impacts" Principal Investigator with Tom Manley (Middlebury College) - \$144,406 awarded to SUNY Plattsburgh
2017 - 2019	National Science Foundation "Collaborative Research: Common Problem Pedagogy (CP ²)" Co-Investigator with Dr. James Liszka (SUNY Plattsburgh), Bruce Mattingly and Steven Broyles (SUNY Cortland), Jan Bowers and Joshua Nollenberg (SUNY Oneonta), and Lorrie Clemons and Fehmi Damkaci (SUNY Oswego) - \$81,414 awarded to SUNY Plattsburgh
2016 - 2019	New York State Energy Research and Development Authority "Long-term Monitoring of Methane within New York State: Assessing the Impact of Shifting Energy Portfolios on Regional Air Quality and Climate" Principal Investigator with Lee Murray (Rochester) - \$101,213 awarded to SUNY Plattsburgh
Summer 2016	Lake Champlain Research Consortium "Monitoring Lake Champlain to Assess Future Climate Change Impacts" with undergraduate Will Pierce - \$5,000 awarded to SUNY Plattsburgh

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- 2016 - 2018 **National Oceanic and Atmospheric Administration Lake Champlain Sea Grant**
"Monitoring Lake Champlain to Assess Future Climate Change Impacts"
Principal Investigator - **\$66,767** awarded to SUNY Plattsburgh
- 2015 - 2016 **Interdisciplinary Teaching about Earth for a Sustainable**
[InTeGrate through the Science Education Resource Center at Carleton College]
"Geoscience to policy: Regulating carbon emissions to mitigate climate change"
Co-Principal Investigator with Curt Gervich (CEES), Sandra Penny (Sage),
Robyn Smyth and Gautam Sethi (Bard), and Pinar Batur (Vassar) - **\$15,000**
- 2014 **SUNY Research Foundation STEM Undergraduate Research Program**
Presidential Research Award - **\$5,000**
- 2013 - 2014 **SUNY Research Foundation 4E Network of Excellence**
"Adirondack Air Chemistry and Climate: Developing a Collaborative Partnership"
Principal Investigator with James Schwab (Albany) and Huiting Mao (SUNY ESF) -
\$3,000

Peer-Reviewed Publications | Eight since Fall '18 (*students are italicized*)

- Carrea, L., C. J. Merchant, J.-F. Creatux, C. DeGasperi, T.M. Dokulil, H. Dugan, B. Gibbes, A. Laas, **E. M. Leibensperger**, S. Maberly, L. May, S.-I. Matsuzaki, G. Monet, D. Pierson, M. Pulkkanen, O.O. Rusanovskaya, S.V. Shimaraeva, E.A. Silow, M. Schmid, M.A. Timofeyev, P. Verburg, R.I. Woolway (in review) "Lake Surface Water Temperature" in State of the Climate 2022, *Bull. Amer. Meteor. Soc.*
- Weil, M., J. Cooney, M. Hossain, M. Konieczny**, and **E. M. Leibensperger** (accepted) "Contributing to a Greener NY: Analysis of Methane Emissions in NYS" *Journal of Undergraduate Reports in Physics*.
- Leibensperger, E. M., M. Konieczny**, and **M. Weil** (2023) "Uncertainty in the Mobile Observation of Wind" *Atmosphere*, 14, 765, doi: 10.3390/atmos14050765.
- Catena, A. M., J. Zhang, R. Commane, L. T. Murray, M. J. Schwab, **E. M. Leibensperger**, J. M. Marto, M. L. Smith, and J. J. Schwab (2022) "Hydrogen sulfide emission properties from two large landfills in New York State" *Atmosphere*, 13, 1251, doi: 10.14434/josotl.v22i2.31645.
- Liszka, J., R. Card, P. Clark, K. J. Coleman, **E. Leibensperger**, B. Mattingly, M. McGuire, J. Nollenberg, K. Vanslyke-Briggs, and L. Wilson (2022) "The Common Problems Project: An interdisciplinary, community-engaged, problem-based pedagogy" *Journal of the Scholarship of Teaching and Learning*, 22, 2, 96-118, doi: 10.14434/josotl.v22i2.31645.
- Murray, L. T., **E. M. Leibensperger**, C. Orbe, L. J. Mickley, and M. Sulprizio (2021) "GCAP 2.0: A global 3-D chemical transport model framework for past, present, and future climate scenarios" *Geosci. Model Dev.*, 14, 5789-5823, doi: 10.5194/gmd-14-5789-2021.
- Zhang, H., S. Wu, and **E. M. Leibensperger** (2021) "Source-receptor relationships for atmospheric mercury deposition in the context of global change" *Atmos. Env.*, 254, doi: 10.1016/j.atmosenv.2021.118349.
- Penny, S. M., R. Smyth, G. Sethi, **E. M. Leibensperger**, C. Gervich, and P. Batur (2019) "Multidisciplinary and Topical in the Science Classroom: Regulating Carbon Emissions to Mitigate Climate Change" in *Interdisciplinary Teaching About Earth and the Environment for a Sustainable Future*, Goesselin, D. C., A. E. Egger, and J. Taber (Eds.), Springer.

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- Mao, J., A. Carlton, R. C. Cohen, W. H. Brune, J. L. Jimenez, H. O. T. Pye, N. L. Ng, B. McDonald, C. Warneke, J. de Gouw, L. J. Mickley, **E. M. Leibensperger**, R. Mathur, and L. Horowitz (2018) "Southeast Atmosphere Studies: Learning from model-observation syntheses" *Atmos. Chem. Phys.*, 18, 2615-2651, doi:10.5194/acp-18-2615-2018.
- Shen, L., L. J. Mickley, and **E. M. Leibensperger** (2017) "Atlantic Multidecadal Oscillation drives multidecadal variability of summertime surface air quality in the eastern United States" *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL075905.
- Cusworth, D. H., L. J. Mickley, **E. M. Leibensperger**, and M. J. Iacono (2017) "Aerosols as a driver of enhanced U.S. surface solar radiation since the early 21st century and resulting hydrological impacts" *Atmos. Chem. Phys.*, 17, 13559-13572, doi:10.5194/acp-17-13559-2017.
- Fiore, A. M., V. Naik, and **E. M. Leibensperger** (2015) "A Summary of the 45th A&WMA Critical Review: Air Quality and Climate Connections" *EM Magazine*, June, 32-35.
- Fiore, A. M., V. Naik, and **E. M. Leibensperger** (2015) "Critical Review: Air quality and connections" *J. Air Waste Manage.*, 65(6), 646-685.
- Oswald, E., L.-A. Dupigny Giroux, **E. M. Leibensperger**, R. Poirot, and J. Merrell (2015) "Climate controls on air quality in the Northeastern U.S.: An examination of summertime ozone statistics during 1993-2012" *Atmos. Environ.*, 112, 278-288.
- Leibensperger, E. M.** and R. A. Plumb (2014) "Effective diffusivity in baroclinic flow" *J. Atmos. Sci.*, 71(3), 972-984.
- Barrett, S. R. H., S. H. L. Yim, C. K. Gilmore, L. T. Murray, S. R. Kuhn, A. P. K. Tai, R. M. Yantosca, D. W. Byun, F. Ngan, X. Li, J. Levy, A. Ashok, J. Koo, H. M. Wong, O. Dessens, S. Balasubramanian, G. G. Fleming, C. Wollersheim, R. Malina, M. N. Pearlson, S. Arunachalam, F. S. Binkowski, **E. M. Leibensperger**, D. J. Jacob, J. I. Hileman, and I. A. Waitz (2012) "Public health, climate and economic impacts of desulfurizing jet fuel" *Environ. Sci. Technol.*, 26, 4275-4282.
- Leibensperger, E. M.**, L. J. Mickley, D. J. Jacob, W.-T. Chen, J. H. Seinfeld, A. Nenes, P. J. Adams, D. G. Streets, N. Kumar, and D. Rind (2012) "Climatic effects of 1950-2050 changes in US anthropogenic aerosols - Part 2: Climate response" *Atmos. Chem. Phys.*, 12, 3349-3362.
- Leibensperger, E. M.**, L. J. Mickley, D. J. Jacob, W.-T. Chen, J. H. Seinfeld, A. Nenes, P. J. Adams, D. G. Streets, N. Kumar, and D. Rind (2012) "Climatic effects of 1950-2050 changes in US anthropogenic aerosols - Part 1: Aerosol trends and radiative forcing" *Atmos. Chem. Phys.*, 12, 3333-3348.
- Tai, A. P. K., L. J. Mickley, D. J. Jacob, **E. M. Leibensperger**, L. Zhang, J. A. Fisher, and H.O.T. Pye (2012) "Meteorological modes of variability for fine particulate matter (PM_{2.5}) air quality in the United States: Implications for PM_{2.5} sensitivity to climate change" *Atmos. Chem. Phys.*, 12, 3131-3145.
- Mickley, L. J., **E. M. Leibensperger**, D. J. Jacob, and D. Rind (2012) "Removal of aerosol optical depths over the United States causes large regional warming in a transient 2010-2050 climate simulation" *Atmos. Environ.*, 46, 545-553.
- Wang, Q., D. J. Jacob, J. A. Fisher, J. Mao, **E. M. Leibensperger**, C. C. Carouge, P. Le Sager, Y. Kondo, J. L. Jimenez, M. J. Cubison, and S. J. Doherty (2011) "Sources of carbonaceous aerosols and deposited black carbon in the Arctic in winter-spring: Implications for radiative forcing" *Atmos. Chem. Phys.*, 11, 12453-12473.

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Fisher, J. A., D. J. Jacob, Q. Wang, R. Bahreini, C. C. Carouge, M. J. Cubison, J. E. Dibb, T. Diehl, J. L. Jimenez, **E. M. Leibensperger**, M. B. J. Meinders, H. O. T. Pye, P. K. Quinn, S. Sharma, A. van Donkelaar, and R. M. Yantosca (2011) "Sources, distribution, and acidity of sulfate-ammonium aerosol in the Arctic in winter-spring" *Atmos. Environ.*, 45, 7301-7318.

Murphy, D. M., J. C. Chow, **E. M. Leibensperger**, W. C. Malm, C. McDade, M. Pitchford, B. A. Schichtel, J. G. Watson, W. H. White (2011) "Decreases in elemental carbon and fine particle mass in the United States" *Atmos. Chem. Phys.*, 11, 4679-4686.

Leibensperger, E. M., L. J. Mickley, D. J. Jacob, and S. R. H. Barrett (2011) "Intercontinental influence of NO_x and CO emissions on particulate matter air quality" *Atmos. Environ.*, 45, 3318-3324.

Kopacz, M., D. L. Mauzerall, J. Wang, **E. M. Leibensperger**, D. K. Henze, and K. Singh (2011) "Origin and radiative forcing of black carbon transported to the Himalayas and Tibetan Plateau" *Atmos. Chem. Phys.*, 11, 2837-2852.

Leibensperger, E. M., L. J. Mickley, and D. J. Jacob (2008) "Sensitivity of US air quality to mid-latitude cyclone frequency and implications of 1980-2006 climate change" *Atmos. Chem. Phys.*, 8, 7075-7086.

Wu, S., L. J. Mickley, **E. M. Leibensperger**, D. J. Jacob, D. Rind, D. G. Streets (2008) "Effects of 2000-2050 global change on ozone air quality in the United States" *J. Geophys. Res.*, 113, D06302, doi: 10.1029/2007JD008917.

Hudman, R. C., D. J. Jacob, S. Turquety, **E. M. Leibensperger**, L. T. Murray, S. Wu, A.B. Gilliland, M. Avery, T. H. Bertram, W. Brune, R. C. Cohen, J. E. Dibb, F. M. Flocke, A. Fried, J. Holloway, J. A. Neuman, R. Orville, A. Perring, X. Ren, G. W. Sachse, H. B. Singh, A. Swanson, and P. J. Wooldridge (2007) "Surface and lightning sources of nitrogen oxides over the United States: magnitudes, chemical evolution, and outflow" *J. Geophys. Res.*, 112, D12S05, doi: 10.1029/2006JD007912.

Chen, C. H., B. A. Sargent, C. Bohac, K. H. Kim, **E. Leibensperger**, M. Jura, J. Najita, W. J. Forrest, D. M. Watson, G. C. Sloan, and L. D. Keller (2006) "Spitzer IRS Spectroscopy of IRAS-Discovered Debris Disks" *Astrophys. J. Suppl. S.*, 166, 351-377.

Sloan, G. C., L. D. Keller, W. J. Forrest, **E. Leibensperger**, B. Sargent, A. Li, J. Najita, D. M. Watson, B. R. Brandl, C. H. Chen, J. D. Green, F. Markwick-Kemper, T. L. Herter, P. D'Alessio, P. W. Morris, D. J. Barry, P. Hall, P. C. Meyers, and J. Houck (2005) "Mid-Infrared Spectra of Polycyclic Aromatic Hydrocarbon Emission in Herbig Ae/Be Stars" *Astrophys. J.*, 632, 956-963.

Select Presentations

April 26, 2023
Remote

Seven Years of Data Buoy Observations of Lake Champlain
Lake Champlain Sea Grant, University of Vermont

March 7, 2023
Las Vegas, NV

Contributing to a Greener NY: Analysis of methane emissions in NYS
March Meeting of the American Physical Society (*undergraduate Matthew Weil*)

April 9, 2022
Rochester, NY

Mobile Observationns of Major Methane Sources in New York State
Rochester Symposium for Physics, Astronomy, and Optics Students
(*undergraduate Jacob Cooney*)

March 15, 2022
Chicago, IL

Mobile observations of methane to constrain agricultural greenhouse gas emissions
March Meeting of the American Physical Society (*undergraduate Muhtasim Hossain*)

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November 17, 2021 Remote	Upwelling in Lake Champlain's South Main Lake: Identifying events and assessing impacts Lake Champlain Sea Grant, University of Vermont
May 5, 2020 Plattsburgh, NY	Aerosols and climate during the early 20th century CEES Student Research Symposium (<i>undergraduate Fuji Maneesai</i>)
April 17, 2020 Remote/Zoom	Climate change in the Lake Champlain Basin: What's already happened and where we are headed Zoom a Scientist, Lake Champlain Sea Grant Webinar Series for middle and high school students
March 7, 2020 Burlington, VT	Data buoys in Lake Champlain: Real-time observations State of the Lake Champlain Fisheries Meeting
Sept. 10, 2020 Grand Isle, VT	SUNY Plattsburgh data buoys and climate change in Lake Champlain Lake Champlain Basin Program Executive Committee
July 23, 2019 Wilmington, NY	Climate change in the Adirondacks: Observed change and emissions monitoring Falconer Lecture Series at Whiteface Mountain Field Station
May 9, 2019 Plattsburgh, NY	Climate change in the Adirondacks CEES Student Research Symposium (<i>undergraduate Alexandria Elliot</i>)
May 9, 2019 Plattsburgh, NY	Analysis of simulated methane concentrations at various locations in New York State CEES Student Research Symposium (<i>undergraduate Joseph Judge</i>)
May 9, 2019 Plattsburgh, NY	Seasonality of climate change CEES Student Research Symposium (<i>undergraduate Fuji Maneesai</i>)
May 9, 2019 Plattsburgh, NY	Weather and air quality in New York State: Late 2018 pollution event CEES Student Research Symposium (<i>undergraduate Inna Slager</i>)
May 9, 2019 Plattsburgh, NY	Covariation of air pollutants at Whiteface Mountain CEES Student Research Symposium (<i>undergraduate Shafik Vadsirya</i>)
Oct. 27, 2018 Silver Bay, NY	Climate change in the Adirondacks: Causes, Impacts, Projections North Country Climate Reality Conference (<i>undergraduate Alexandria Elliott</i>)
Jan. 8, 2018 Burlington, VT	Climate change and intraseasonal variability in Lake Champlain L. Champlain Research Conference (<i>presented by Mark Malchoff</i>)
Jan. 8, 2018 Burlington, VT	Development of a Lake Champlain Anglers' Temperature Database L. Champlain Research Conference (<i>undergraduate Joseph Judge</i>)
Nov. 11, 2018 Durham, NC	Regional climate change: Detection, attribution, prediction Duke University
May 3, 2017 Plattsburgh, NY	Observed and projected temperature change in Lake Champlain CEES Student Research Symposium (<i>undergraduate Vasu Govani</i>)
May 3, 2017 Plattsburgh, NY	Calculating the carbon flux within Lake Champlain CEES Student Research Symposium (<i>undergraduate Grace DeSantis</i>)

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- Dec. 13, 2016
San Francisco, CA **Assessing climate change within Lake Champlain (NY, VT, QC)**
American Geophysical Union Fall Meeting
- May 5, 2016
Plattsburgh, NY **Climate change in Lake Champlain: Modeling future warming**
CEES Student Research Symposium (*undergraduates Conor McCormick and Nicholas Campagna*)
- May 5, 2016
Plattsburgh, NY **How well can we model the Ice Storm of 1998? Assessing the accuracy of cloud microphysics schemes**
CEES Student Research Symposium (*undergraduate student David Bubbins*)
- June 9, 2015
Princeton, NJ **Anthropogenic aerosols and the evolution of 20th century U.S. climate**
Southeast Atmosphere Studies Workshop, NOAA GFDL/Princeton University
- May 7, 2015
Plattsburgh, NY **Modeling thermal structure of a small Adirondack lake**
CEES Student Research Symposium (*graduate student Sarah Glancy*)
- May 7, 2015
Plattsburgh, NY **Chemical composition of Adirondack snow**
CEES Student Research Symposium (*undergraduates Casey Corrigan and Neil Sedlak*)
- April 14, 2015
Montreal, QC **Does air pollution impact U.S. drought?**
Department of Atmospheric and Oceanic Science, McGill University
- Dec 19, 2014
San Francisco, CA **Anthropogenic aerosols and the evolution of U.S. droughts**
American Geophysical Union Fall Meeting
- Dec. 5, 2014
Palisades, NY **Does air pollution impact drought? Influence of sulfate and BC on U.S. climate**
Lamont-Doherty Earth Observatory, Columbia University
- Sep. 26, 2014
Plattsburgh, NY **Anthropogenic aerosols and the dust bowl**
NYS Section of the American Physical Society (*undergraduate Evan Cazavilan*)
- Sep. 26, 2014
Plattsburgh, NY **Speak for the trees: What can be learned from Champlain Valley tree core data**
New York State Section of the American Physical Society (*undergraduate Ryan Revette*)
- March 27, 2012
Ithaca, NY **Connecting US air pollution to international air quality and climate change**
Department of Chemistry, Ithaca College
- October 6, 2011
New York, NY **Interactions between air quality and climate**
SEAS Colloquium in Climate Science, Columbia University
- Sep.12, 2011
Cambridge, MA **Climate effects of US anthropogenic aerosols**
Atmospheric Science Seminar Series, MIT
- June 10, 2011
Cambridge, MA **Interactions between US air quality and climate**
Joint Program on the Science and Policy of Global Change, MIT
- May 3, 2011
Cambridge, MA **Climate effects of US aerosol sources: aerosol trends, radiative forcing, and climate response**
5th International GEOS-Chem Meeting, Harvard University

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July 11, 2010 Halifax, NS	Climate response to 1950-2050 US aerosol trends ICACGP/IGAC
March 31, 2010 Princeton, NJ	Climate response to changing US aerosol sources NOAA GFDL
Feb. 12, 2010 New York, NY	Climate response to changing US aerosol sources NASA GISS
Dec. 19, 2008 San Francisco, CA	Regional climate response to US aerosol sources American Geophysical Union Fall Meeting
Feb. 21, 2007 Research Triangle Park, NC	Air quality degradation due to greenhouse warming decreasing the frequency of mid latitude cyclones EPA Workshop on Consequences of Global Change for Air Quality

Professional Activities

Academic Peer Reviewer

Journals	Atmospheric Chemistry and Physics, Atmos. Environ., Climate Dynamics, Climate Research, Climatic Change, Current Pollution Reports (editorial board), Environmental Research Letters, Environmental Science & Technology, Geo. Res. Lett., Hydrology, Journal of Climate, Journal of Geophysical Research - Atmosphere, Nature Geoscience, PNAS, Scientific Reports
Grant Agencies	NASA, NOAA, NSF, U.K. Natural Environment Research Council

Professional Memberships

American Geophysical Union, American Meteorological Society (full member), American Physical Society, Sigma Xi, Clinton County Environmental Health & Safety Professional Advisory Committee (2015-2020)

Outreach

Science Consultant	Town of Dryden/Mother's Out Front Spring 2021 - present
Scientific Reviewer	Raymond Johnson's climate change column in the Plattsburgh 2012 - 2020 <i>Press Republican</i>
Educator	Teacher training event with Lake Champlain Sea Grant on R/V Melosira 2019
Presenter	Falconer Lecture Series at Whiteface Mountain ASRC Lodge 2019 "Climate change in the Adirondacks: Observed change and emissions monitoring"
Presenter	Lake Champlain Basin Program Executive Committee, 2019 "SUNY Plattsburgh data buoys and climate change in Lake Champlain"
Panelist	Mountain Lake PBS Climate Change Forum (recorded and aired) 2019
Media Expert	North Country Public Radio (NPR), Glens Falls Post Star, and Adirondack Daily 2019 Enterprise

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Presenter 2018	North Country Climate Reality Conference "Climate change in the Adirondacks" with undergraduate student Alexandria Elliot
Presenter 2017	Lake Champlain United Anglers meeting "Temperatures in Lake Champlain: Can climate research be of use to anglers?"
Judge 2013-2017	Champlain Valley Regional Science Fair
Presenter 2016	Science@30City "Climate Change: What's Left to Argue?"
Presenter 2016	CEES Fridays in the Center Series "Climate Change is no April Fools' Joke"
Presenter 2016	SUNY Plattsburgh College Council "Overview of Lake Champlain Research"
Presenter 2016	Plattsburgh Rotary Club "Overview of Lake Champlain Research"
Panelist 2015	SUNY Plattsburgh Honors Center National Issues Forum on Climate Change
Co-organizer 2015	SUNY Plattsburgh's contribution to SUNY-wide forum on extreme weather and climate change (included on-campus events open to public)
Scientific Reviewer 2013 - 2016	Climate Literacy and Energy Awareness Network (CLEAN)
Co-organizer 2014	SUNY Plattsburgh 50th Anniversary of the Wilderness Act Celebration
Presenter 2014	Earth and Environmental Science Club Lecture Series "Air!"
Presenter 2013	Environmental Action Committee Earth Week "Super Storms!"
Lecturer 2012	Northeast States for Coordinated Air Use Management "Short-lived climate forcers"

University Service

At Ithaca College

Member Humanities and Sciences Academic Status Appeals Committee
Spring 2022 - present

Secretary Paulen A. Smith Chapter of Sigma Xi at Ithaca College
Fall 2021 - present

Co-organizer Physics & Astronomy Colloquium Series
Fall 2021 - present

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Advisor Ithaca College Men's Club Lacrosse
Fall 2020 - present

Faculty Presenter Grants 101 Workshop
Spring 2023

Organizer/Proposer Ithaca College grant submission to the Sherman Fairchild Foundation
Fall 2021 - Spring 2022

Co-developer Applied Physics Minor
Spring 2021

At SUNY Plattsburgh

Associate Lake Champlain Research Institute
Fall 2012 - Spring 2020

Chair Water Quality Faculty Search Committee
Fall 2019 - Spring 2020

Member Feinberg Library Undergraduate Research Award Committee
Fall 2015 - Spring 2020

Ph.D. Committee Ying Zhou (SUNY-ESF)
Fall 2015 - 2019

Chair Soil Science Faculty Search Committee
Fall 2017 - Spring 2019

Faculty Senator SUNY Plattsburgh
Fall 2015 - Spring 2019

Chair Water Quality Modeling, Geology, Soil Science Faculty Search Committee (3 positions)
Spring 2017

Member Aquatic and Terrestrial Ecologist Faculty Search Committee
Fall 2016 - Spring 2017

Member CEES Curriculum Committee
Fall 2012 - Spring 2017

Member Wetland/Forest Ecologist Faculty Search Committee
Spring 2016

CEES Rep. Freshman Orientation
Summer 2015; 2016

Panelist Honors Center National Issues Forum on Climate Change
Spring 2015

Presenter, Museum Docents Meeting, Wilderness Act and the Adirondack Art Walk
Spring 2015

Co-organizer SUNY-wide extreme weather and climate change forum
Fall 2014 - Spring 2015

Eric M. Leibensperger

Co-planner New York State Section of the American Physical Society Topical Meeting
Summer 2014

Co-organizer SUNY Plattsburgh 50th Anniversary of the Wilderness Act Celebration
Summer 2014

Co-developer Environmental Physical Science major
Spring - Fall 2014)

Participant SUNY Distance Mentored Undergraduate Research
Fall 2012 - Spring 2013

Member Forest/Field Ecologist Faculty Search Committee
Fall 2012 - Spring 2013