

# TRACEY HOLLOWAY

Jeff Rudd and Jeanne Bissell Professor in Energy Analysis and Policy

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*University of Wisconsin—Madison, Madison, WI 53726*

## **PROFESSIONAL EXPERIENCE**

### **University of Wisconsin – Madison**

- 2016-Present: Professor, Nelson Institute for Environmental Studies and Atmospheric & Oceanic Sciences
  - Hired in 2003 as part of Energy Systems and Policy Faculty Cluster Hiring Initiative
  - Position converted to 80% Nelson; 20% AOS (prior to 2016, 100% Nelson)
  - Department of Civil and Environmental Engineering (Affiliate since 2003)
  - Department of Mechanical Engineering (Affiliate since 2015)
  - Program in Geological Engineering (Program Faculty since 2016)
- 2016-Present: Engagement Lead, Energy Analysis and Policy Program
- 2014-2016: Professor, Nelson Institute for Environmental Studies
  - Department of Atmospheric and Oceanic Sciences (Affiliate since 2003; Joint, 2009-2016)
- 2009-2014: Associate Professor, Nelson Institute for Environmental Studies
- 2012-2014: Executive Board Member, Wisconsin Energy Institute
- 2006-2012: Associate Director, National Center for Freight Infrastructure, Research, and Education (CFIRE)
- 2008-2012: Affiliate Appointment in the La Follette School of Public Policy
- 2008-2011: Director, Nelson Institute Center for Sustainability and the Global Environment (SAGE)
- 2008-2011: Associate Director, Wisconsin Bioenergy Initiative
- 2003-2009: Assistant Professor, Nelson Institute for Environmental Studies

### **Other positions**

- 2022-Present: Chair, Energy Analysis and Policy Graduate Certificate Program
- 2016-Present: Leader, NASA Health and Air Quality Applied Sciences Team (HAQAST-2 and -3)
- 2017-Present: Founder and Chair, Science-a-Thon (scienceathon.org)
- 2018-Present: Advisory Committee Member, UW-Madison Space Science and Engineering Center
- 2017-Present: Advisory Committee Member, UW-Madison Global Health Institute
- 2013-Present: Member, Wisconsin Department of Natural Resources Air Management Study Group
- 2012-Present: Science Advisory Board, Wisconsin Initiative on Climate Change Impacts
- 2006-Present: Executive Board Member, *Environmental Research Letters* (2006-2010, Editorial Board)
- 2017-2021: Advisory Committee Member, Yale/JHU SEARCH (\$10M EPA ACE Research Center)
- 2019: External Review Committee, Purdue Department of Earth, Atmospheric, and Planetary Sciences
- 2018-2021: Advisory Committee Member, Atmospheric Chemistry Observations & Modeling (ACOM) at the National Center for Atmospheric Research (NCAR)
- 2013-2019: Member, President's Advisory Committee on University Relations (PACUR) for University Corporation for Atmospheric Research (UCAR)
- 2002-2018: Officer (President '14-'17; Treasurer '17-18), Earth Science Women's Network Non-Profit (ESWN); prior to 2014 co-founder and leader of ESWN prior to becoming a 501c3.

- 2017: Panel Member, Princeton University Woodrow Wilson School STEP Program 10-year Review
- 2015-2018: Member of the AGU Roger Revelle Medal Committee
- 2012-2016: Deputy Leader, NASA Air Quality Applied Sciences Team (HAQAST-1)
- 2012: Short-term Consultant to CNA Analysis Solutions
- 2001-2003: Post-Doctoral Fellow, Earth Institute, Columbia University

## **EDUCATION**

- **Princeton University**, Princeton, NJ (1995-2001)  
Ph.D., Atmospheric and Oceanic Sciences Program  
Graduate Certificate in Science, Technology, and Environmental Policy,  
Woodrow Wilson School of Public and International Affairs
- **Brown University**, Providence, RI (1991-1995)  
Sc.B. with Honors in Applied Mathematics

## **HONORS and AWARDS**

- Member, National Academy of Medicine (2022)
- Member, Board of Trustees of the University Corporation for Atmospheric Research (UCAR) (2022)
- Inaugural Jeff Rudd and Jeanne Bissell Professor in Energy Analysis and Policy (2022)
- Slesinger Award for Excellence in Mentoring, UW-Madison Women Faculty Mentoring Program (2021)
- Gaylord Nelson Distinguished Professor (2017-2021)
- American Geophysical Union Ascent Award in the Atmospheric Sciences (2020)
- Invited as one of 6 Founding Members, National “Science Moms” Initiative (2021)
- Phi Beta Kappa Excellence in Teaching Award, University of Wisconsin—Madison (2019)
- Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring to the Earth Science Women’s Network (PAESMEM, 2018); Holloway co-founded ESWN in 2002 and served as its first President from 2014-2017
- Faculty Achievement Award, Leadership in Engineering Excellence and Diversity, University of Wisconsin—Madison College of Engineering (2018)
- Undergraduate Research Mentoring Award, UW—Madison Office of the Provost (2018)
- UCAR Walter Orr Roberts Distinguished Lecture at the CU-Boulder Conference on World Affairs (2018)
- Invited American Meteorological Society Core Science Keynote (2018)
- University of Wisconsin—Madison Vilas Mid-Career Investigator Award (2017)
- Leader, NASA Health and Air Quality Applied Sciences Team (2016-2019; 2021-2025)
- American Meteorological Society, Special Award to the Earth Science Women’s Network (2017)  
Holloway co-founded ESWN in 2002 and served as its first President from 2014-2017
- Wikipedia Profile (2016)
- Invited Fellow, AAAS Leshner Leadership Institute (2016-2017)
- Co-Author on two of the “Ten Milestone Articles” selected in 2016 by Environmental Research Letters on their 10<sup>th</sup> Anniversary (top 10 papers over a 10 year period, out of 2170 published).
- Invited TEDx Speaker, “Creating On-Ramps to Science,” TEDxUWMadison 2015 (<http://tinyurl.com/TEDxOnRamps>)
- Recognized as one of “100 Inspiring Women in STEM” by *Insight into Diversity* (2015; <http://tinyurl.com/TH-100STEM>)
- Chair, 2015 Energy Summit, hosted by the Wisconsin Energy Institute (October 2015)

- *Nature* magazine profile, “Turning point: Tracey Holloway” (10 April 2014 issue, <http://tinyurl.com/TH-Nature2014>)
- *Amicus Curiae* to the U.S. Supreme Court, No. 12-1182, -1183 (September 2013)
- MIT C3E (Clean Energy Education & Empowerment Awards) award in Education and Mentoring (2012)
- Council on Undergraduate Research in the Geosciences (GeoCUR) Undergraduate Research Mentor Award (2012)
- Deputy Leader & Member, NASA Air Quality Applied Sciences Team (2011-2016)
- Leopold Leadership Fellow (2011)
- Finalist, Olympus Innovation Awards Program from the National Collegiate Inventors and Innovators Alliance; recognizing leadership of the Climate Leadership Challenge innovation competition (2010)
- Invited panelist for UW-Madison Chancellor’s “Meeting of the Minds” in New York City (2010)
- 2007 Editor’s Choice Award Winner – Policy Analysis Paper of the Year (2<sup>nd</sup> Runner-up), *Environmental Science & Technology*. Same manuscript also one of ES&T’s “Most-Accessed” papers for 4<sup>th</sup> quarter 2007 and 1<sup>st</sup> quarter 2008.
- NASA Earth System Science Graduate Fellowship Recipient (1998-2001)
- Princeton Environmental Institute--Science, Technology, and Environmental Policy (PEI-STEP) Fellowship Recipient (1998)
- Department of Defense Graduate Fellowship Recipient (1995-1998)
- Brown University Department of Applied Mathematics Rohn Truell Award (1995)
- Brown University Sigma Xi Membership (1995)
- Brown University Magna Cum Laude (1995)
- National Merit Scholarship Winner (1991)

### **SELECTED MEDIA COVERAGE (2014 onward)**

1. *Wisconsin Public Radio*: Ozone hole represents rare climate success story (November 2022)
2. *University of Wisconsin-Madison News*: UW’s Tracey Holloway elected to National Academy of Medicine (October 2022)
3. *Science Daily*: Cutting air pollution emissions would save 50,000 US lives, \$600 billion each year (May 2022)
4. *Science Daily*: Cutting air pollution emissions would save 50,000 US lives, \$600 billion each year (May, 2022 – coverage of co-authored research also appeared in *Washington Post* and other news outlets)
5. *Wisconsin Public Radio*: Vehicle emissions in Wisconsin declined temporarily during COVID-19 shutdowns (October 2021)
6. *The Cap Times*: Q&A: Air quality scientist Dr. Tracey Holloway keeps her eyes on the future (September 2021)
7. *Environmental Health News*: Measuring Houston’s environmental injustice from space (July 2021)
8. *The Equation, from Union of Concerned Scientists*: Illinois To See Significant Public Health Benefits in a 100% Carbon-Free Future (May 2021)
9. *Spectrum TV*: UW-Madison professor teams up with climate experts to form 'Science Moms' group (May 2021)
10. *Mother.ly*: These scientists are bringing the climate change fight to fellow moms (April 2021)
11. *Milwaukee Journal Sentinel*: UW-Madison professor Tracey Holloway wants to educate moms on climate change through work with Science Moms (March 2021)
12. *EcoRight Speaks* podcast interview (March 2021)
13. *WKOW/ABC News 27*: Science Moms Help Other Moms Tackle Climate Change (March 2021)
14. *University of Wisconsin—Madison News*: UW atmospheric scientist bridges science, policy, public health to bring space-based data to the world (March 2021)

15. *Wisconsin State Journal (front page)*: Science mom: UW scientist joins campaign to teach fellow mothers about climate change (February 2021)
16. *Badger Herald*: Expert interviewed for “DNR issues Air Quality Alert for Wisconsin over the weekend” (February 2021)
17. *Ecowatch*: Science Moms Look to Enlist Other Moms to Tackle Climate Change (February 2021)
18. *WUWM, Milwaukee NPR: Six Moms Hope To Demystify Climate Change For Fellow Parents* (February 2021)
19. *Audubon Magazine*: Quoted as an expert on birds and air pollution (January 2021)
20. *Wisconsin State Journal (front page)*: UW study validates MGE climate goals, but activists want plan for carbon reduction (November 2020)
21. *Spectrum News 1*: Expert interviewed for “DNR Report Shows Wisconsin's Air Quality Continuing to Improve” (November 2020)
22. *Wisconsin Public Radio*: Expert interviewed for “DNR Report Shows Wisconsin's Air Quality Is Improving” (October 2020)
23. *Wisconsin Public Radio*: Larry Meiller Show on Air Quality (June 2020)
24. *Bloomberg News; Crain's New York Business*: Quoted as expert on state-to-state pollution (January 2020)
25. *Wisconsin Public Radio*: Net-Zero Carbon by 2050 is Feasible (May 2019)
26. *Consumer Affairs*: Quoted as expert on home energy use and environmental impacts (May 2019)
27. *Badger Herald*: Quoted as expert on health benefits of electric vehicles (April 2019)
28. *MarketWatch/Psychology Today/Wisconsin Public Radio*, Turn off a light, save a life (March 2019)
29. *AccuWeather*, How Working from Home Helps the Environment (January 2019)
30. *EOS*, from the American Geophysical Union: Illustrating Casual Sexism in Science (December 2018)
31. *Wisc-TV/Channel 3000*: Science-a-thon Connects Students with Scientists (October 2018)
32. *UW-Madison Press Release*: UW's Most Interesting Twitter accounts You Need to Follow (October 2018)
33. *PLOS Ecology*: Take Your Social Media to Work Day (October 2018)
34. *Daily Beast*: The Looming Health Crisis in the Aftermath of the California Wildfires (September 2018)
35. *The Economist* Air-conditioners do great good, but at a high environmental cost (August 2018)
36. *NRDC Expert Blog*: Punishing Heat in the East: Climate Change and Heat Stress (August 2018)
37. *Politifact*: Fact-check: Donald Trump's defense of Scott Pruitt's rent, security, EPA record (August 2018)
38. *Nature Climate Change*: Air Conditioned Health (July 2018)
39. *NPR Science Friday*: Under Climate Change, The AC Giveth And The AC Taketh Away (July 2018)
40. *Christian Science Monitor*: US counties get mixed grades in ‘State of the Air’ pollution report (April 2018)
41. *Online Education.com*: Extended profile in the “Women Breaking Barriers” series (April 2018)
42. *Wisconsin Public Radio*: New Report Raises Questions About Air Pollution From Foxconn Plant (April 2018)
43. *The Milwaukee Journal Sentinel*: Foxconn industrial operations would represent a major new source of air pollution in region (March 2018)
44. *Duke Research Blog*: High as a Satellite — Integrating Satellite Data into Science (March 2018)
45. *Portage Daily Register*: Portage coal plant renovation to cut out ozone (February 2018)
46. *Environmental Research Web*: Air pollution harms bird health too (November 2017)
47. *Audubon Magazine*: What Can Birds Tell Us About Air Pollution? (September 2017)
48. *Wisconsin Public Radio*: UW Study Examines How Air Pollution Affects Birds (August 2017)
49. *Chicago Tribune*: Smog follows Chicagoans on vacation to Wisconsin, Michigan (August 2017)
50. *Wisconsin Public Radio*: Study Explores How Much Pollution Your Air Conditioner Produces (June 2017)
51. *Scientific American*: Pollution Peaks When Temperatures Top Out (May 2017)
52. *Popular Science*: Your air conditioning habit makes summer smog worse (May 2017)
53. *Wisconsin Public Radio*: Creating A Network For Women In Science (March 2017)
54. *EOS*, from the American Geophysical Union: Data Illuminate a Mountain of Molehills Facing Women Scientists (January 2017)

55. *NBC News*: 11 Surprising Predictions for 2017 From Some of The Biggest Names In Science (December 2016)
56. *The Daily Cardinal*: NASA appoints UW professor to lead new initiative (September 2016)
57. *The Badger Herald*: UW professor to lead NASA team researching pollution emissions (September 2016)
58. *The Isthmus*: Eyes in the sky: UW professor is putting NASA satellite data to work (August 2016)
59. *Nature*: Turning point: Tracey Holloway (April 2014)
60. *The Milwaukee Journal Sentinel*: UW alums' technology firm SnowShoe makes tracks to angel investors (March 2015)

## **RESEARCH ACTIVITIES**

\* designates student advisees/mentees; # designates interns, post-docs, and supervised research staff  
 As of September 2022, h-index of 38 (Google Scholar Total)

### **Peer-Reviewed Publications (in chronological order)**

1. Holloway, T., H. Levy II, and P. Kasibhatla (2000), Global Distribution of Carbon Monoxide, *J. Geophys. Resch.*, 105, 12,123-12,147.
2. Yienger, J. J., M. Galanter, T. A. Holloway, M. J. Phadnis, S. K. Guttikunda, G. R. Carmichael, W. J. Moxim, and H. Levy II (2000), The episodic nature of air pollution transport from Asia to North America, *J. Geophys. Resch.*, 105, 26,931-26,945.
3. Holloway, T., H. Levy II, and G. R. Carmichael (2002), Transfer of Reactive Nitrogen in Asia: Development and Evaluation of a Source-Receptor Model, *Atmospheric Environment*, 36, 4251-4264.
4. Holloway, T., A. Fiore, and M. Galanter Hastings (2003), Intercontinental Transport of Air Pollution: Will emerging science lead to a new hemispheric treaty?, *Environ. Sci. Technol.*, 37, p. 4535-4542.
5. Fiore, A., T. Holloway, and M. G. Hastings (2003), A global perspective on air quality: Intercontinental transport and linkages with climate, *Environmental Manager (EM) Magazine*, December, 2003, p. 13-22.
6. Ezzati, M., R. Bailis, D. M. Kammen, T. Holloway, L. Price, L. A. Cifuentes, B. Barnes, A. Chaurey, and K. N. Dhanapala (2004), Energy Systems and Population Health, *Annu. Rev. Environ. Resour.* 29, p. 383–419; doi: 10.1146/annurev.energy.29.062103.121246.
7. Denholm, P. \*, G. L. Kulcinski, and T. Holloway (2005), Emissions and energy efficiency assessment of baseload wind energy systems, *Environ. Sci. Technol.*, 39, 1903-1911.
8. Denholm, P. \* and T. Holloway (2005), Improved accounting of emissions from utility energy storage system operation, *Environ. Sci. Technol.*, 39, 9016-9022.
9. Patz, Jonathan A, Diarmid Campbell-Lendrum, Tracey Holloway, and Jonathan A Foley (2005), Impact of regional climate change on human health, *Nature*, 438, 310-317.
10. Foley, Jonathan A., Ruth DeFries, Gregory P. Asner, Carol Barford, Gordon Bonan, Stephen R. Carpenter, F. Stuart Chapin, Michael T. Coe, Gretchen C. Daily, Holly K. Gibbs, Joseph H. Helkowski, Tracey Holloway, Erica A. Howard, Christopher J. Kucharik, Chad Monfreda, Jonathan A. Patz, I. Colin Prentice, Navin Ramankutty, and Peter K. Snyder (2005), Global Consequences of Land Use, *Science*, 309, 570-574.
11. Holloway, T., P. Kinney, and A. Sauthoff\* (2005), Application of air quality models to public health analysis, *Energy for Sustainable Development*, 9, 49-57.
12. Spak, S. N. \*, T. Holloway, B. Lynn, and R. Goldberg (2007), A Comparison of Statistical and Dynamical Downscaling for Surface Temperature in North America, *J. Geophys. Res.*, 112, D08101, doi:10.1029/2005JD006712.
13. Yamashita, K., F. Ito, K. Kameda, T. Holloway, and M. P. Johnston\* (2007), Cost-effectiveness

- Analysis of Reducing the Emission of Nitrogen Oxides in Asia, *J. Water Air Soil Pollut: Focus* 7, 357-369, DOI 10.1007/s11267-006-9097-3.
14. Ulirsch, G. V., L. M. Ball, W. Kaye, C. M. Shy, C. V. Lee, D. Crawford-Brown, M. Symons, and T. Holloway (2007), Effect of Particulate Matter Air Pollution on Hospital Admissions and Medical Visits for Lung and Heart Disease in Two Southeast Idaho Cities, *J. Exposure Sci. and Env. Epidemiol.*, p. 1-10. \*U.S. Department of Health & Human Services 2008 Nominee for the Charles C Shephard Science Award in Assessment & Epidemiology
  15. Stone Jr., Brian, Mednick, Adam C., Holloway, Tracey, and Spak, Scott N.\* (2007), Is Compact Growth Good for Air Quality, *J. American Planning Assoc* 73:4, 404-418.
  16. Johnston, M.\* and T. Holloway (2007), A Global Comparison of National Biodiesel Production Potentials, *Environ. Sci. Technol.*, 41 (23), 7967–7973 10.1021/es062459k. \*ES&T Editor's Choice Award Winner: 2007 Policy Analysis Paper of the Year (2nd runner-up)
  17. Carmichael, G. R., T. Sakurai, D. Streets, Y. Hozumi, H. Ueda, S. U. Park, C. Fung, Z. Han, M. Kajino, M. Engardt, C. Bennet, H. Hayami, K. Sartelet, T. Holloway, Z. Wang, A. Kannari, J. Fu, K. Matsuda, N. Thongboonchoo, and M. Amann (2008), MICS-Asia II: The Model Intercomparison Study for Asia Phase II Methodology and Overview of Findings, *Atmos. Env.*, 42, 3468-3490.
  18. Han, Z., T. Sakurai, H. Ueda, K. Matsuda, Y. Hozumi, G. R. Carmichael, D. Streets, S. U. Park, C. Fung, A. Chang, M. Kajino, N. Thongboonchoo, M. Engardt, C. Bennet, H. Hayami, K. Sartelet, T. Holloway, Z. Wang, and M. Amann (2008), MICS-Asia II; Model Intercomparison and Evaluation of Ozone and Relevant Species, *Atmos. Env.*, 42, 3491-3509.
  19. Hayami, H., T. Sakurai, K. Matsuda, Z. Han, H. Ueda, G. R. Carmichael, D. Streets, T. Holloway, Z. Wang, N. Thongboonchoo, M. Engardt, C. Bennet, C. Fung, A. Chang, S. U. Park, M. Kajino, and M. Amann (2008), MICS-Asia II: Model Intercomparison and Evaluation of Particulate Sulfate, Nitrate and Ammonium, *Atmos. Env.*, 42, 3510-3527.
  20. Wang, Zifa, Fuying Xie, T. Sakurai, H. Ueda, Zhiwei Han, G. R. Carmichael, D. Streets, M. Engardt, T. Holloway, H. Hayami, M. Kajino, N. Thongboonchoo, C. Bennet, S. U. Park, C. Fung, A. Chang, K. Sartelet, and M. Amann (2008), MICS-Asia II: Model inter-comparison and evaluation of acid deposition, *Atmos. Env.*, 42, 3528-3542.
  21. Holloway, T., T. Sakurai, Z. Han, S. Ehlers\*, S. N. Spak\*, L. W. Horowitz, H. Ueda, Y. Hozumi, G. R. Carmichael, D. Streets, S. U. Park, C. Fung, A. Chang, M. Kajino, N. Thongboonchoo, M. Engardt, C. Bennet, H. Hayami, K. Sartelet, Z. Wang, K. Matsuda, and M. Amann (2008), MICS-Asia II: Impact of global emissions on regional air quality in Asia, *Atmos. Env.*, 42, 3543-3561.
  22. Lin, M., T. Oki, T. Holloway, D. G. Streets, M. Bengtsson, and S. Kanae (2008), Long-range transport of acidifying substances in East Asia-Part I: Model evaluation and sensitivity studies, *Atmos. Env.* 42 (24), 5939-5955.
  23. Lin, M., T. Oki, M. Bengtsson, S. Kanae, T. Holloway, and D. G. Streets (2008), Long-range transport of acidifying substances in East Asia-Part II: Source-Receptor Relationships, *Atmos. Env.* 42 (24), 5956-5967.
  24. Gibbs, H. K., M. Johnston\*, J. A. Foley, T. Holloway, C. Monfreda, N. Ramankutty, and D. Zaks (2008), Carbon payback times for crop-based biofuel expansion in the tropics: the effects of changing yield and technology, *Environ. Res. Lett.* 3 (2008) 034001 (10pp) \*Selected as one of the 10 best papers in the first 10 years of *ERL*
  25. Snyder, D., T. R. Dallmann, J. J. Schauer, T. Holloway, M. J. Kleeman, M. D. Geller, and C. Souitas (2008), Direct Observation of the Break-up of a Nocturnal Layer using Elemental Mercury as a Ubiquitous Tracer, *GRL*, 35, L17812, doi:10.1029/2008GL034840.
  26. Holloway, T., S. N. Spak\*, D. Barker\*, M. Bretl\*, K. Hayhoe, J. Van Dorn, and D. Wuebbles (2008), Change in ozone air pollution over Chicago associated with global climate change, *JGR-Atmospheres* 113, D22306, doi:10.1029/2007JD009775.

27. Fiore, A. M., F. J. Dentener, O. Wild, C. Cuvelier, M. G. Schultz, C. Textor, M. Schulz, C. Atherton, D. Bergmann, I. Bey, G. Carmichael, R. Doherty, B. N. Duncan, G. Faluvegi, G. Folberth, M. Gauss, S. Gong, D. Hauglustaine, P. Hess, T. Holloway, L. W. Horowitz, I. S. A. Isaksen, D. J. Jacob, J. E. Jonson, J. W. Kaminski, T. J. Keating, A. Lupu, I. A. MacKenzie, E. Marmer, V. Montanaro, R. Park, G. Pitari, K. J. Pringle, J. A. Pyle, M. G. Sanderson, S. Schroeder, D. T. Shindell, D.S. Stevenson, S. Szopa, . Van Dingenen, M. G. Vivanco, P. Wind, G. Wojcik, S. Wu, G. Zeng, and A. Zuber (2009), Multi-model Estimates of Intercontinental Source-Receptor Relationships for Ozone Pollution, *J. Geophys. Research*, 114, D04301 doi: 10.1029/2008JD010816.
28. Johnston\*, Matt, Jonathan A. Foley, Tracey Holloway, Chris Kucharik, and Chad Monfreda (2009), Resetting Global Expectations from Agricultural Biofuels, *Environ. Res. Lett.* 4, 014004 (9pp)
29. Stone, Brian, Adam Mednick, Tracey Holloway, S.N. Spak\* (2009) Mobile Source CO<sub>2</sub> Mitigation through Smart Growth Development and Vehicle Fleet Hybridization, *ES&T* 43 (6), 1704–1710, doi:10.1021/es8021655.
30. Spak, S. N.\* and T. Holloway (2009), Seasonality of Aerosol Speciation in the Great Lakes Region, *J. Geophys. Research* 114, D08302, doi:10.1029/2008JD010598.
31. Lin, M.#, T. Holloway, T. Oki, D. G. Streets, and A. Richter (2009), Mechanisms Controlling Surface Ozone Over East Asia: A Multiscale Study Coupling Regional and Global Chemical Transport Models, *Atmospheric Chemistry and Physics* 9, 3277-3301.
32. Lin, M. #, T. Holloway, G. R. Carmichael, and A. M. Fiore (2010), Quantifying pollution inflow and outflow over East Asia through coupling regional and global models, *Atmospheric Chemistry and Physics*, 10, 4221–4239.
33. Lin, J.-T., D.J. Wuebbles, H-C Huang, Z. Tao, M. Caughey, X-Z Liang, J-H Zhu., and T. Holloway (2010) Potential effects of climate and emissions changes on surface ozone in the Chicago area. *Journal of Great Lakes Research* 36, 59–64.
34. Nemet, G. F., T. Holloway, and P Meier (2010), Implications of incorporating air-quality co-benefits into climate change policymaking, *Environ. Res. Lett.* 014007, doi:10.1088/1748-9326/5/1/014007. \*Selected as one of the 10 best papers in the first 10 years of *ERL*
35. Rasmussen, D.J. \*, T. Holloway, and G.F. Nemet (2011), Opportunities and challenges in assessing climate change impacts on wind energy – A critical comparison of wind speed projections in California. *Environ. Res. Lett.* 6 024008 doi: 10.1088/1748-9326/6/2/024008.
36. Grabow, M. L., S. N. Spak\*, T. Holloway, B. Stone Jr., A. C. Mednick, J. A. Patz (2011), Air Quality and Exercise-Related Health Benefits from Reduced Car Travel in the Midwestern United States, *Environ. Health Perspect.* doi:10.1289/ehp.1103440.
37. Johnston, M. \*, R. Licker, J. Foley, T. Holloway, N.D. Mueller, C. Barford and C. Kucharik (2011). Closing the gap: global potential for increasing biofuel production through agricultural intensification, *Environ. Res. Lett* 6 doi: 10.1088/1748-9326/6/3/034028.
38. Johnston, M. \*, E. Bickford\*, T. Holloway, C. Dresser\*, T. Adams (2012). Impacts of Biodiesel Blending on Freight Emissions in the Midwestern United States, *Transportation Research Part D: Transport and Environment*, 17D(1), 457-465.
39. Holloway, T., C. Voigt\*, J. Morton\*, S.N. Spak\*, A.P. Rutter, and J.J. Schauer (2012). An Assessment of Atmospheric Mercury in the Community Multiscale Air Quality (CMAQ) Model at an Urban Site and a Rural Site in the Great Lakes Region of North America. *Atmos. Chem. Phys.*, 12, 7117-7133, 2012, doi:10.5194/acp-12-7117-2012.
40. Harkey, M. K. # and T. Holloway (2013). Constrained dynamical downscaling for assessment of future climate impacts. *J. Geophys. Res.-Atmospheres* 118, 1–13, doi:10.1002/jgrd.50223.
41. Bickford, E. \*, T. Holloway, A. Karambelas\*, M. Johnston\*, T. Adams, M. Janssen, and C. Moberg\* (2014). Emissions and air quality impacts of truck-to-rail freight modal shifts in the Midwestern U.S. *Environmental Science & Technology* 48 (1), 446-454.

42. Plachinski, S. \*, T. Holloway, P. J. Meier, G. F. Nemet, Arber Rrushaj\*, Jacob Oberman\*, Phillip Duran\*, Caitlin Voigt\* (2014) Quantifying the Air Quality Co-benefits of Lower-Carbon Electricity Production. *Atmospheric Environment*, 94, pp. 180–191.
43. Witman, S. #, T. Holloway, and P. Reddy (2014). Integrating Satellite Data into Air Quality Management: Experience from Colorado. *Environmental Manager (EM) Magazine, February 2014 Issue*.
44. Jacob, D., T. Holloway and J. D. Haynes (2014). The NASA Air Quality Applied Sciences Team. *Environmental Manager (EM) Magazine, February 2014 Issue*.
45. Patz, J.A., H. Frumkin, T. Holloway, D.J. Vimont, and A. Haines (2014). Climate Change Challenges and Opportunities for Global Health. *JAMA*. Published online September 22, 2014. doi:10.1001/jama.2014.13186
46. Jin, X. \* and T. Holloway (2015), Spatial and temporal variability of ozone sensitivity over China observed from the Ozone Monitoring Instrument. *J. Geophys. Res. Atmos.*, 120, 7229–7246. doi: 10.1002/2015JD023250.
47. Harkey, M. #, T. Holloway, J. Oberman\*, and E. Scotty\* (2015), An evaluation of CMAQ NO<sub>2</sub> using observed chemistry-meteorology correlations, *J. Geophys. Res. Atmos.*, 120, 11,775–11,797, doi:10.1002/2015JD023316.
48. Kaldunski\*, B., B. Pierce, and T. Holloway (2016) When Stratospheric Ozone Hits Ground-level Regulation - Exceptional Events in Wyoming. *Bull. Amer. Meteor. Soc.* doi:10.1175/BAMS-D-14-00133.1.
49. Meier, Paul, Tracey Holloway, Jonathan Patz, Monica Harkey#, Doug Ahl, David Abel\*, Scott Schuetter, Scott Hackel (2017) Impact of warmer weather on electricity sector emissions due to building energy use, *Environ. Res. Lett.* 12 064014.
50. Abel, David\*, Tracey Holloway, Ryan Kladar\*, Paul Meier, Doug Ahl, Monica Harkey#, Scott Schuetter, Jonathan Patz (2017) Response of Power Plant Emissions to Ambient Temperature in the Eastern United States, *Environ. Sci. Technol.*, 51 (10), pp 5838–5846 doi: 10.1021/acs.est.6b06201.
51. Karambelas, Alexandra \*, Tracey Holloway; Gregor Kiesewetter; Chris Heyes (2017) “Constraining the uncertainty in emissions over India with a regional air quality model evaluation” *Atmos. Env.* 174, p. 194-203.
52. Sanderfoot, Olivia V. \*, Tracey Holloway (2017) Air pollution impacts on avian species via inhalation exposure and associated outcomes *Environ. Res. Lett.* 12 083002 doi:10.1088/1748-9326/aa8051.  
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53. Abel, David \*, Tracey Holloway, Monica Harkey#, Arber Rrushaj \*, Greg Brinkman, Phillip Duran \*, Mark Janssen, Paul Denholm (2017) “Potential Air Quality Benefits from Increased Solar Photovoltaic Electricity Generation in the Eastern United States” *Atmos. Env.* 175, p. 65-74.
54. Marín-Spiotta, E., A.S. Adams, R.T. Barnes, A.A. Berhe, M. Burt, E. Fischer, M.H. Okoro, M. Hastings, T. Holloway, A. Morris, and C. Wiedinmyer (2017), Building Community to Advance Careers and Catalyze Institutional Change: Lessons from the Earth Science Women's Network, *EarthZine*, published online May 2017, <https://earthzine.org/2017/05/23/lessons-from-the-earth-science-womens-network/>
55. Abel, David,\* and Tracey Holloway, Monica Harkey#, Paul Meier, Doug Ahl, Vijay S. Limay, Jonathan A. Patz (2018) “Air Quality-Related Health Impacts from Climate Change and from Adaptation of Cooling Demand for Buildings in the Eastern U.S.” *PLOS Medicine*, <https://doi.org/10.1371/journal.pmed.1002599>.
56. Alexandra Karambelas\*, Tracey Holloway, Patrick Kinney, Arlene Fiore, Ruth DeFries, Grego Kiesewetter, Chris Heyes (2018) “Urban versus rural health impacts attributable to PM<sub>2.5</sub> and O<sub>3</sub> in northern India” *Environ. Res. Lett.* 16, issue 6.



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58. Anastasia Montgomery\*, Tracey Holloway (2018) “Assessing the relationship between satellite-derived NO<sub>2</sub> and economic growth over the 100 most populous global cities” *J. Appl. Remote Sens.*, vol. 12, 4.
59. Zhuldyz Darynova, Aigerim Maksot, Lyazzat Kulmukanova, Milad Malekipirbazari, Hamed Sharifi, Mehdi Amouei Torkmahalleh, Tracey Holloway (2018) “Evaluation of NO<sub>2</sub> column variations over the atmosphere of Kazakhstan using satellite data” *J. Appl. Remote Sens.*, vol. 12, 4.
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64. Gallagher, Ciaran\* and Tracey Holloway (2020) “Integrating Air Quality and Public Health Benefits in U.S. Decarbonization Strategies” *Front. Public Health*, 19 November 2020 doi.org/10.3389/fpubh.2020.563358
65. Anenberg, S. C., M. Bindl\*, M. Brauer, J. J. Castillo, S. Cavalieri, B. N. Duncan, A. M. Fiore, R. Fuller, D. L. Goldberg, D. K. Henze, J. Hess, T. Holloway, P. James, X Jin, I Kheirbek, P. L. Kinney, Y. Liu, A. Mohegh, J. Patz, M. P. Jimenez, A. Roy, D. Tong, K. Walker, N. Watts, and J. J. West (2020). Using satellites to track indicators of global air pollution and climate change impacts: Lessons learned from a NASA-supported science-stakeholder collaborative. *GeoHealth*,4, e2020GH000270.
66. Harkey#, M., T. Holloway., E. J. Kim\*, Baker, K. R., & Henderson, B. (2021). “Satellite formaldehyde to support model evaluation.” *Journal of Geophysical Research: Atmospheres*, 126, e2020JD032881. doi.org/10.1029/2020JD032881
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71. Gallagher\*, Ciaran L., and Tracey Holloway (2022) US decarbonization impacts on air quality and environmental justice, *Environmental Research Letters* 17 (11), 114018
72. Mailloux, N. A., D. W. Abel, T. Holloway, J. A. Patz (2022), Nationwide and Regional PM<sub>2.5</sub>-Related Air Quality Health Benefits From the Removal of Energy-Related Emissions in the United States, *GeoHealth* 6 (5), e2022GH000603.
73. Gesangyangi\*, D. Vimont, T. Holloway, D. Lorenz (2022), A methodology for evaluating the effects of climate change on climatic design conditions for buildings and application to a case study in Madison, Wisconsin, *Environmental Research: Infrastructure and Sustainability*, <https://iopscience.iop.org/article/10.1088/2634-4505/ac6e01>
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75. Rachel A Bergin, Monica Harkey#, Alicia Hoffman\*, Richard H Moore, Bruce Anderson, Andreas Beyersdorf, Luke Ziemba, Lee Thornhill, Edward Winstead, Tracey Holloway, Timothy H Bertram (2022) Observation-Based Constraints on Modeled Aerosol Surface Area: Implications for Heterogeneous Chemistry, *Atmospheric Chemistry and Physics*, 22, 15449-15468, 2022
76. Clara M Jackson\*, Tracey Holloway, and Christopher W Tessum (2023) City-scale analysis of annual ambient PM<sub>2.5</sub>source contributions with the InMAP reduced-complexity air quality model: a case study of Madison, Wisconsin. *Environ. Res.: Infrastruct. Sustain.* 3 015002 doi 10.1088/2634-4505/acb0fa

## Book Chapters and Reports

1. UNECE Task Force on Hemispheric Air Pollution Transport (2007). T. Holloway served as a contributing author to Chapter 5: “Global and Regional Modelling,” in *Hemispheric Transport of Air Pollution 2007*, United Nations, New York and Geneva.
2. Rao, S. T., C. Hogrefe, T. Holloway, and G. Kallos (2007), Long-Range Transport of Atmospheric Pollutants and Transboundary Pollution *Encyclopedia of Atmospheric Pollution*.
3. Chicago Climate Change Assessment Report (2008). T. Holloway served as a contributing author.
4. UNECE Task Force on Hemispheric Air Pollution Transport, Part A: Ozone and Particulate Matter (2010). T. Holloway served as a contributing author to Chapter 4: “Global and Regional Modelling” and Chapter 5: “Impacts on Health, Ecosystems, and Climate.” UNECE Air Pollution Studies No. 17. <http://www.htap.org/>
5. Sauthoff, A., P. Meier, T. Holloway (2010), *Assessment of Biodiesel Scenarios for Midwest Freight Transport Emission Reduction*. CFIRE Project Final Report, 02-10.
6. Holloway T., and C. Littlefield\* (2011). Intercontinental air pollution transport: Links to environmental health. In: Nriagu JO (ed.) *Encyclopedia of Environmental Health*, volume 3, pp. 266–272 Burlington: Elsevier.
7. Bickford, E. and T. Holloway (2012), *Sustainable Freight Infrastructure to Meet Climate and Air Quality Goals*. CFIRE Project Final Report, 02-09.
8. Holloway, T., P. Meier, G. Nemet (2012) *Quantifying the Air Quality Co-benefits of Lower-Carbon Electricity Production*, Focus on Energy Final Report May 2012.
9. T. Holloway and V. Limaye (2015), Climate Impacts Downscaling. In: *Climate Change and Public Health* Barry Levy and Jonathan Patz, Oxford University Press.
10. Daniel J. Jacob, T. Holloway, Bryan N. Duncan, Jana Milford, Daniel Knight, Patrick Dolwick, Thomas Moore (2016) The NASA ASP Air Quality Applied Sciences Team (AQAST): A Retrospective, [http://acmg.seas.harvard.edu/aqast/pdf/aqast\\_retrospective\\_text\\_20160216.pdf](http://acmg.seas.harvard.edu/aqast/pdf/aqast_retrospective_text_20160216.pdf)
11. T. Holloway and D. Abel\* (2017) Characterizing the Toxicity of Polycyclic Aromatic Hydrocarbons from Light-Duty On-Road Fuel Emissions in the United States, Report to the

Wisconsin BioFuels Association and the Wisconsin Corn Growers Association  
<http://digital.library.wisc.edu/1793/77140>

12. Holloway T., and O. Sanderfoot\* (2019). Intercontinental air pollution transport: Links to environmental health, Updated. In: *Encyclopedia of Environmental Health*.
13. T. Holloway and C. Jackson\* (2020) Interpreting Global Energy Scenarios for Emissions Planning at the Utility Scale, Report to Madison Gas and Electric Company  
<https://minds.wisconsin.edu/handle/1793/80834>
14. Paul Meier and T. Holloway (2021) Illinois Health Impacts from Transitioning to 100% Carbon-Free Electricity, Report to the Respiratory Health Association <https://resphealth.org/wp-content/uploads/2021/05/Health-Benefits-from-Carbon-Free-Electricity.pdf>
15. T. Holloway and H. Levy II (under contract), *Understanding Air Quality: Science and Policy Perspectives* Cambridge University Press.

### Other non-refereed publications

1. Holloway, T., A. Fiore, and M. Galanter Hastings (2004), Developing a Dialogue on Hemispheric Pollution, *Environ. Sci. Technol.*, 38, p. 1914-1915.
2. Bell, M., and T. Holloway (2007), Global impacts of particulate matter air pollution, *Environ. Res. Lett.* 2 045026.
3. Holloway, T. (2012) *The Earth Science Women's Network (ESWN) A Case Study in Organizational Growth*, invited white paper for Edgewood College (Madison, WI) class on Organizational Communication, Prof. L. Larmer.
4. T. Holloway (2015) Viewpoints: What's Next for Air Quality in the United States? Invited article for the UGEC Blog <https://ugec.org/tag/tracey-holloway/>
5. T. Holloway (2018) Supporting Women in Science: A Series of Articles about the Earth Science Women's Network (#ESWN) and #Scienceathon <https://medium.com/@traceyholloway>

### Funded External Awards (in chronological order)

1. Stone, B. and T. Holloway (2005-2007) "Modeling the Effects of Land Use and Technology Change on Future Air Quality in the Upper Midwestern United States," EPA \$678,685.
2. Patz, Jonathan, Steve Vavrus, Jonathan Chipman, Marty Kanarek, Tracey Holloway, Grace Wahba, Henry Anderson, Lawrence Hanrahan, Linda Mearns, and Claudia Tebaldi (2006-2009) "Health Risks from Climate Variability and Change in the Upper Midwest: a Place-based Assessment of Climate-related Morbidity," EPA \$598,599.
3. Holloway, T., L. Emmons, and P. Hess (2007-2010) "Connections between Regional Processes and Intercontinental Air Pollution Transport," NASA Atmospheric Composition \$600,000
4. Schauer, J. J., M. M. Shafer, T. Holloway, and R. Griffin (2007-2010) "Sensitivity of Heterogeneous Atmospheric Mercury Processes to Climate Change," EPA \$900,000.
5. Holloway, T. (2007-2008, via agreement with the University of Illinois, Professor Don Wuebbles) "Statistical Downscaling Projections of Ozone Air Pollution in Chicago Associated with Climate Change," Global Philanthropy Partnership \$6555.
6. T. Holloway, Greg Nemet, and Paul Meier (2008-2009) "Coordinated Energy Strategies for Climate and Air Quality," Wisconsin Focus on Energy \$91,803.
7. Holloway, Tracey and Paul Meier (2008-2010) "Sustainable Freight Infrastructure to Meet Climate and Air Quality Goals," Wisconsin Department of Transportation (WisDOT) and the National Center for Freight Infrastructure, Research, and Education (CFIRE), based at UW-Madison, allowing competition from a consortium of five universities \$148,880.
8. Meier, Paul and Tracey Holloway (2008-2009) "Assessment of Near-Term Strategies for Freight Transport Emission Reduction," National Center for Freight Infrastructure, Research, and

- Education (CFIRE), based at UW-Madison, allowing competition from a consortium of five universities \$74,907.
9. Hastings, M., T. Holloway, S. Laursen, E. Marin-Spiotta, A. Steiner, and C. Wiedinmyer (9/2009-8/2012) “Partnerships for Adaptation, Implementation, and Dissemination (PAID): Collaborative Research - Career Advancement for Women through the Earth Science Women's Network (ESWN),” NSF \$1,000,000.
  10. Holloway, Tracey and Paul Meier (9/2010-8/2012) “Freight from Space; Using Satellite Data to Quantify Rail and Truck Emissions” National Center for Freight Infrastructure, Research, and Education (CFIRE), based at UW-Madison, allowing competition from a consortium of five universities \$150,000.
  11. Meier, Paul and Tracey Holloway (9/2010-8/2011) “Does Natural Gas Make Sense for Freight?” National Center for Freight Infrastructure, Research, and Education (CFIRE), based at UW-Madison, allowing competition from a consortium of five universities \$75,000.
  12. Holloway, Tracey (1/1/11 – 1/31/12) “Analysis of the Air Quality Impacts of Distributed Solar Photovoltaics” DoE NREL/National Renewable Energy Laboratory \$43,807.
  13. Holloway, Tracey, Steve Ackerman, and Bart Sponseller (7/11 – 6/16) “Membership Application for the NASA Air Quality Applied Sciences Team: Climate, Energy, and Air Quality” NASA \$1,025,000 (includes base funding + supplements for Tiger Teams and serving as Deputy Director)
  14. Patz, Jonathan, Tracey Holloway, and Paul Meier (10/11-5/14) “Climate Change Impacts on Power Plant Emissions, Air Quality and Health in the US” NIH \$392,000.
  15. Holloway, Tracey; collaborative with Mark Abkowitz, Vanderbilt University (separate budgets); (6/12-8/13) “Estimating the Effects of Climate Change on Transportation Infrastructure,” CFIRE, UW budget is \$60,000.
  16. Holloway, Tracey “Improving Public Understanding of Sustainability and Freight Transport,” CFIRE, \$60,000.
  17. Holloway, Tracey (3/13-5/13) Energy Center of Wisconsin “Climate Change Impacts on the NASA Stennis Space Center,” \$1,500.
  18. Meier, Paul, Tracey Holloway, Jonathan Patz, Bill Eisele (9/2014-8/2015) “Understanding Time-of-Day Variation in Truck Transport and General Traffic Emissions: Guidance for Strategic Urban Air Quality Investments.” National Center for Freight Infrastructure, Research, and Education (CFIRE) \$184,000.
  19. Holloway, Tracey (2016) Characterizing the toxicity of PAHs from on-road vehicles, Wisconsin BioFuels Association and the Wisconsin Corn Growers Association (\$30,000, Holloway P.I.)
  20. Holloway, Tracey, Jonathan Patz, Brad Pierce, Kirk Baker, and Rob Kaleel (9/16-8/20) NASA Health and Air Quality Applied Science Team, Member and Team Lead (4 years, \$1.25M = base funding + supplemental for Tiger Teams + commercial data evaluation)
  21. Holloway, Tracey (5/19-7/22) “Net Zero Carbon Strategies for Electricity in Madison, Wisconsin” Madison Gas & Electric (Phase 1; \$103K; Phase 2; \$257K)
  22. Holloway, Tracey (5/19-7/20) “Health and Air Quality Impacts of Energy System Change” Joyce Foundation (\$211K)
  23. Holloway, Tracey and Jeremiah Johnson (6/20-8/21) “New Satellite Tools to Evaluate Emission Inventories: Is a 3-D Model Necessary?” Texas Air Quality Research Program (\$223K)
  24. Bertram, Tim and Tracey Holloway (1/20-12/22) “Development, Validation and Integration of a New Model-Ready Parameterization of N<sub>2</sub>O<sub>5</sub> Heterogeneous Chemistry” EPA (\$798K)
  25. Holloway, Tracey, Jonathan Patz, Brad Pierce (2/21-2/25) NASA Health and Air Quality Applied Science Team, Member and Team Lead (4 years, \$1.0M = base funding + supplements)
  26. Holloway, Tracey (10/20-10/21) “Impacts of Coal-Fired Power Plants and Other Facilities on Near-Surface SO<sub>2</sub>” Center for Applied Environmental Law and Policy (CAELP; \$149K)
  27. Holloway, Tracey (2/21-1/22) “Health and Air Quality Impacts of Energy System Change” McKnight Foundation (\$100K)

28. Tessum, Chris, and Tracey Holloway (9/22-3/24) NASA Environmental Justice Data Integration Project (18 months, \$250K)
29. Holloway, Tracey and Paul Meier (2023) Great Plains Institute

### **Invited Keynotes and Named Lectures (in chronological order)**

1. Wisconsin Department of Natural Resources State-Wide Air Meeting, Sheboygan, WI; 10/15  
*Invited Keynote* on “Satellite Data for Air Quality in Wisconsin”
2. Edgewood College Undergraduate Research Celebration, Madison, WI; 4/16  
*Invited Dinner Keynote and Afternoon Speaker*
3. University of Pittsburgh, Pittsburg, PA; 11/16  
*Keynote Speaker on Satellites for Health and Air Quality Analysis*
4. American Meteorological Society, Austin TX; 1/18  
*Invited Core Science Keynote in Atmospheric Chemistry*
5. UCAR/CU-Boulder, Boulder, CO; 4/18  
*Invited Walter Orr Roberts Keynote for Conference on World Affairs*
6. National Center for Atmospheric Research, Atmospheric Chemistry Modeling Workshop, Boulder, CO; 8/18  
*Evening Keynote: A Career in Atmospheric Chemistry*
7. Climate and Energy Funders Group, Midwest Convening, Minneapolis, MN; 8/19  
*Lunchtime Keynote: Connecting Air Quality and Health with Energy Planning*
8. University of Wisconsin 50<sup>th</sup> Reunion, Class of 1970, Madison, WI; 2/20  
*Keynote: On the Horizon – Climate and Clean Air*
9. Nelson Institute 50<sup>th</sup> Anniversary Celebration, Madison, WI; 9/20  
*Keynote: On the Horizon – Climate and Clean Air*

### **Invited Research Presentations (in chronological order)**

1. National Center for Atmospheric Research (NCAR), Boulder, CO; 10/04 *Two Invited Talks*  
Atmospheric Chemistry Division: Connecting Regional and Global Air Pollution Chemistry and Transport  
Institute for the Study of Society and the Environment: Does Interdisciplinary Research Require More Self-Discipline?
2. Kyoto University, Kyoto, Japan; 11/04 *Invited Talk* Working Group Meeting of the Model Inter-comparison Study for Asia: Relationship of MICS-Asia Phase II with Global Pollution Transport
3. Univ. of Oklahoma; NOAA National Severe Storms Laboratory, Norman, OK; 7/05 *Two Invited Talks*  
NOAA NSSL: Impact of Global Emissions on Regional Air Quality in Asia  
Univ. of Oklahoma: Does Interdisciplinary Research Require More Self-Discipline?
4. Princeton University, Princeton, NJ; 9/05 *Invited Talk* NOAA Geophysical Fluid Dynamics Laboratory 50<sup>th</sup> Anniversary Symposium: 21st Century Challenges (and Opportunities) for Graduate Education in the Earth Sciences
5. Lake Air Director’s Consortium (LADCO) Chicago, IL; 11/06 *Invited Presentation at the LADCO data analysis meeting (student Heather Woods attended to represent work)* Assessing the Contribution of Regional Meteorology to Particulate Matter Variability over the Great Lakes Region
6. American Society of Mechanical Engineers, Chicago, IL (11/06) *Invited Panelist*, discussing “The Supply Side of Energy: Current and Pending Regulations”
7. NOAA Geophysical Fluid Dynamics Laboratory Princeton, NJ; 6/07 *Invited seminar speaker* Impacts of Global Change on Regional Air Quality
8. European Respiratory Society Stockholm, Sweden; 9/07 *Invited speaker in “Hot Topic” session on Climate Change*

9. Task Force on Hemispheric Transport of Air Pollution, Jülich, Germany; 10/07 *Invited speaker; travel supported by U.S. EPA* Connecting global and regional air quality analysis in MICS-Asia
10. University of Rochester Rochester, NY; 4/08 *Invited speaker in Energy Forum* Climate Change, Air Pollution, and Energy Use
11. University of Maryland College Park, MD; 11/08 *Invited speaker in Atmospheric Science Colloquium series* Global Processes and Air Quality
12. University of Chicago Chicago, IL; 1/09 *Invited speaker in Geosciences Colloquium series* Managing Air Quality to 2050
13. International Institute for Applied Systems Analysis (IIASA) Laxenburg, Austria; 2/09 *Invited Talk (also invited to all previous nine annual meetings of the Model Inter-comparison Study for Asia, MICS-Asia, project)*
14. University of Illinois Urbana-Champaign, IL; 4/09 *Invited speaker in Atmospheric Science Colloquium series* Hemispheric Air Pollution and Regional Impacts
15. Wisconsin Natural Resources Board, Madison, WI; 6/10 *Invited presenter on the air quality co-benefits of carbon reduction strategies*
16. University of Iowa, Iowa City, IA; 4/11 *Invited by the Public Policy Program*, Talk title: “Sustainability and the Midwest”
17. University of Wisconsin—Madison, Madison WI; 7/11 *Invited Speaker for Wednesday Night @ The Lab*
18. American Geophysical Union, San Francisco, CA; 12/11 *Invited Talk: “Assessing Climate Impacts on Air Pollution in Models and Measurements”*
19. Brown University, Providence, RI; 4/12 *Invited Seminar*; Talk title: “Energy Options for Cleaner Air”
20. National Meeting of Graduate Women in Science, Madison, WI; 6/12 *Invited Talk: “Scientific Innovation Beyond the Lab”*
21. University of Wisconsin—Madison, Madison WI; 9/12 *Invited Speaker for the Weston Roundtable Series*
22. University of Wisconsin—Madison, Madison WI; 9/12 *Invited Speaker for AOS Colloquium*
23. Electric Power Research Institute, 2012 Fall Environment Program Advisory Meetings, Milwaukee, WI; 9/12 *Invited Talk: “Understanding Air Quality in the Great Lakes Region”*
24. University of Calgary, Institute for Sustainable Energy, Environment and Economy, Calgary, Canada; 3/13 *Invited Talk: “Energy Options for Cleaner Air”*
25. Interface 2013 Symposium at Chapman University, Orange County, CA; 4/13 *Invited Talk: “Satellite and Model Data to Support Air Quality Management”*
26. NASA Health and Air Quality Applications, Minneapolis, MN; 9/13 *Invited Talk “NASA Air Quality Applied Sciences Team”*
27. University of Wisconsin--Green Bay, Green Bay, WI; 11/13 *Invited Talk: “Energy Options for Cleaner Air”*
28. American Geophysical Union, San Francisco, CA; 12/13 *Invited Talk* in session “Measurements, Modeling, and Evaluation of Emissions”
29. 2014 Midwest and Central States Air Quality Workshop, St. Louis, MO; 4/14 *Invited Talk “Quantifying Source Contributions to O<sub>3</sub> and PM<sub>2.5</sub> Pollution Episodes across the Eastern US”*
30. Metcalf Institute Science Training for Journalists, Chicago, IL; 9/14 *Invited presenter* to national news editors (9/17/14) and regional journalists (9/18/14) on climate change impacts
31. American Geophysical Union, San Francisco, CA; 12/14 *Invited Presentation* on “Supporting Early Career Women in the Geosciences through Online Peer-Mentoring: Lessons from the Earth Science Women's Network (ESWN)”
32. University of California at Irvine, Irvine, CA; 2/15 *Invited Talk* on “Satellite Data for Air Quality Management”
33. Annual Earth Day Symposium, Madison, CO; 5/15 *Invited Panelist* on Science for Policy Applications
34. Western States Air Meeting, hosted by EPA, Boulder, CO; 5/15 *Invited Talk* on the NASA Air Quality Management Team
35. American Thoracic Society, panel hosted by NASA Applied Sciences, Denver, CO; 5/15 *Invited Talk* on the NASA Air Quality Management Team

36. Princeton University, Princeton, NJ; 11/15  
*Invited Panelist* for 60<sup>th</sup> Anniversary of the NOAA Geophysical Fluid Dynamics Laboratory
37. American Geophysical Union, Fall Meeting, San Francisco, CA; 12/15  
*Invited Panelist* for “Great Debate on Cities Adaptation and Mitigation to Climate Change.” Reported in *EOS* December 2015 (<http://tinyurl.com/TH-AGU-2015>)
38. LaFollette School of Public Affairs, Madison, WI; 4/16  
*Invited Speaker*
39. Wisconsin Alumni Association, Madison, WI; 4/16  
*Invited Showcase Speaker*
40. 2016 Midwest and Central States Air Quality Workshop, St. Louis, MO; 6/16  
*Invited Speaker*
41. NCAR/ASP 2016 Summer Colloquium on Air Quality, Boulder, CO; 7/16  
*Invited Lecturer*
42. NASA Health and Air Quality Applications, Asheville, NC; 9/16  
*Invited Talk* “NASA Health and Air Quality Applied Sciences Team”
43. International Global Atmospheric Chemistry (IGAC), 2016 Meeting, Breckenridge, CO; 9/16  
*Invited Speaker* *Cities in a Global Context*
44. Federation of Environmental Technologists, Inc. 2016 Meeting, Pewaukee, WI; 10/16  
*Invited Lunchtime Speaker* *Satellites for Health and Air Quality Analysis*
45. American Association for the Advancement of Science (AAAS) Annual Meeting, Boston, MA; 2/17  
*Invited Speaker on Scientists’ Engagement in Public Outreach*
46. Wednesday Night @ The Lab, Madison, WI; 3/17  
*Invited Speaker on Past and Future of Air Quality in the U.S.*
47. Princeton University, Princeton, NJ; 3/17  
*Invited Speaker for Science, Technology, and Environmental Policy Program*
48. Northwestern University, Evanston, IL; 4/17  
*Invited Speaker, Department of Earth and Planetary Sciences*
49. University of California, Berkeley, Berkeley, CA; 4/17  
*Invited Speaker for Philomathia Forum*
50. University of Wisconsin—Madison School of Medicine and Public Health, Madison, WI; 4/17  
*Invited Seminar Speaker*
51. American Thoracic Society, panel hosted by NASA Applied Sciences, Washington, DC; 5/17  
*Invited Talk* on the NASA Health & Air Quality Applied Sciences Team.
52. Smithsonian Astrophysical Observatory, TEMPO Science Team Meeting, Cambridge, MA; 5/17  
*Invited Talk* on connecting satellite data with stakeholders.
53. NASA Goddard Space Flight Center, OMI Science Team Meeting, Greenbelt, MD; 9/17  
*Invited Talk* on connecting satellite data with stakeholders.
54. EPA Region 5, Lake Michigan Ozone Study Team Meeting, Chicago, IL; 9/17  
*Invited Talk* on State of the Science: What we Know about Ozone over Lake Michigan.
55. Washington State University, Pullman, WA; 10/17  
*Invited Speaker*
56. ExxonMobil, Annandale NJ; 2/18  
*Invited Speaker: Characterizing Air Quality Impacts of Energy System Change*
57. Duke University, Durham, NC; 3/18  
*Invited Speaker*
58. American Thoracic Society, panel hosted by NASA Applied Sciences, San Diego, CA; 5/18  
*Invited Talk* on the NASA Health & Air Quality Applied Sciences Team.
59. NCAR, Atmospheric Chemistry Modeling Workshop, Boulder, CO; 8/18  
*Invited Talk* on Career in Atmospheric Chemistry
60. American Geophysical Union, Fall Meeting, Washington, DC; 12/18  
*Invited Talk* on Science with Social Impact
61. Environmental Law and Policy Center, Science-Policy Confluence Meeting, Chicago, IL; 3/19  
*Invited Talk* on health impacts of climate change in the Great Lakes

62. MIT Program in Atmosphere, Oceans, and Climate, Cambridge, MA; 4/19  
*Invited Talk: What's Next for U.S. Air Quality Management?*
63. UW-Madison Alumni Foundation 50<sup>th</sup> Class Reunion Speaker, Class of 1969; 9/19  
*Invited Talk: On the Horizon: Climate and Clean Air*
64. Michigan Tech Earth, Planetary, and Space Sciences Institute; 9/19  
*Invited Talk: What's Next for U.S. Air Quality Management?*
65. University of Illinois at Urban-Champaign Department of Civil and Environmental Engineering; 10/19  
*Invited Talk: What's Next for U.S. Air Quality Management?*
66. University of California Los Angeles Atmospheric & Oceanic Sciences; 1/20  
*Invited Talk: New Data and Modeling for Air Quality Management*
67. Wisconsin Environmental Health Network (WEHN) Conference; 3/20  
*Invited Talk: Connecting NASA Data with Public Health and Air Quality*
68. American Geophysical Union GeoHealth Section special event, 11/20  
*Invited Talk: Navigating a Career in GeoHealth*
69. Wisconsin Public Utilities Institute Board Meeting; 11/20  
*Invited Talk: Linking energy with air quality and health*
70. American Geophysical Union Fall Meeting, Virtual; 12/20  
*Invited Talk: A Model of Engaged Science: Experience from the NASA Health and Air Quality Applied Sciences Team*
71. World Bank & Indian Institute of Technology Symposium on Air Pollution Measurement and Analysis Systems (APMAS) – Global Perspectives and Approach for India; 1/21  
*Invited Talk: Satellites, Remote Sensing, and Modeling*
72. U.S. Department of State, Bureau of South and Central Asian Affairs; 1/21  
*Invited Talk: Air Quality and Climate Change — Linkages and Opportunities*
73. Emory University, 2/21  
*Invited Class Seminar: Remote Sensing for Climate and Health*
74. UC-Berkeley, Berkeley Atmospheric Sciences Center Seminar; 2/21  
*Invited Talk: Building Partnerships for Science in Air Quality, Energy, and Health*
75. Health Effects Institute, Annual Meeting; 4/21  
*Invited Talk: Health and Air Quality Benefits of Energy System Change*
76. Wednesday Night @ The Lab public talk; 4/21  
*Invited Talk: Solving the Climate Challenge*
77. UW Now public talk hosted by the UW Foundation; 4/21  
*Invited Talk: Creating a Cost-Effective Green Future*
78. UW Global Health Institute; 4/21  
*Invited Talk: Solving the Climate Challenge — Perspectives from a Science Mom*
79. Forum2100; Energy and business online seminar series; 7/21  
*Invited Talk: Overview of the Energy Analysis and Policy Program*
80. Electric Power Research Institute Advisor Meeting, Virtual; 10/21  
*Invited Talk: Satellite Data to Support Health and Air Quality*
81. American Geophysical Union Fall Meeting, Virtual; 12/21  
*Invited Talk: Satellite Data to Support Health and Air Quality*
82. Lake Michigan Air Directors; Webinar; 1/22  
*Invited Talk: Overview of the Satellite Data for Air Quality*
83. Harvard University; Seminar and meetings; 3/22  
*Invited Talk: Linking Data with Decision-Making*
84. Capitol Lakes Retirement Community; Madison, WI; 4/22  
*Invited Talk on the Air Quality and Climate*
85. American Thoracic Society; panel hosted by NASA Applied Sciences, San Francisco, CA; 5/22  
*Invited Talk on the NASA Health & Air Quality Applied Sciences Team*

## Graduated Students and Mentees



(Current employer; if unknown, \* denotes first employer after graduation or last known)

### Ph.D. Students

1. Dr. David Abel, Ph.D. E&R (2019) Senior Research Scientist, NextEra Analytics
2. Dr. Alexandra Karambelas, Ph.D. E&R (2016) Environmental Analyst, NESCAUM
3. Dr. Vijay Limaye, Ph.D. Epidemiology and E&R (2015) Climate Change & Health Science Fellow, NRDC
4. Dr. Erica Bickford, Ph.D. E&R (2012) Transportation Program Manager, U.S. Department of Energy
5. Dr. Scott Spak, Ph.D. AOS (2009) Associate Professor, University of Iowa
6. Dr. Matt Johnston, Ph.D. E&R (2008) Postdoctoral Researcher/Fellow, University of Minnesota\*

### M.S. Students

1. Sunjoo Hwang, M.P.A. Public Affairs & EAP (2021) Ph.D. student, UNC, Chapel Hill
2. Gesangyangji, M.S. AOS (2019-2020), Continued to Ph.D. @ UW-Madison\*
3. Seohyun (Grace) Choi, M.S. E&R and EAP (2019) Northwestern University
4. Yueping Tang, M.S. Civil and Environmental Engineering (2019)\*
5. Olivia Sanderfoot, M.S. E&R (2015-2017) Ph.D. student, University of Washington
6. David Abel, M.S. Joint in E&R and Mech. Eng. (2015-2016) Continued to Ph.D. @ UW-Madison\*
7. Shuai Chen, M.S. E&R (2015-2016) Deputy Director at China Electronics Holdings Inc.
8. Andrew Wentland, M.S. AOS (2013-2015) Analytics Manager, Twitter
9. Xiaomeng Jin, M.S. E&R (2013-2015) Ph.D. student, Columbia University\*
10. Erica Scotty, M.S. AOS (2012-2014) Senior Research Programmer Analyst, Marshfield Clinic
11. Alexandra Karambelas, M.S. AOS (2012-2013) Continued to Ph.D. @ UW-Madison\*
12. Keith Cronin, M.S. E&R (2009-2011) Planning and Evaluation Analyst, APTIM
13. Matt Luedke, M.S. CEE (2009-2011) Product Engineer, Spin Inc.
14. Mitchell Myhre, M.S. E&R (2010) Regulatory Affairs Manager, Alliant Energy
15. Jami Morton, M.S. E&R (2009-2010) Head of Books and Community Support, Qeepsake
16. Steve Plachinski, M.S. E&R (2008-2010) Environmental Engineer, Andersen Corporation
17. Claus Moberg, M.S. AOS (2006-2009) Vice President of Engineering, Roblox
18. Caitlin Voight (Littlefield), M.S. E&R (2009) Teacher, Virginia Beach Friends School\*
19. Christopher Dresser, M.S. Land Resources (2006-2008) Environmental Protection Specialist, U.S. EPA
20. Heather Eliff (Woods) M.S. AOS (2005-2007) Regional Environmental Health and Safety Manager, UL
21. Matt Johnston, M.S. E&R (2004-2006) Continued to Ph.D. @ UW-Madison\*
22. Raine Gardner, M.S. CEE (2005-2006) Team Leader at MSA Professional Services

### Undergraduate Students (Years denote undergraduate time with The Holloway Group)

1. Alex Pavelic, Chemistry (2020-2022) Ph.D. student, Cal Tech
2. Jennifer McGinnis, Microbiology (2021-2022) Post-B.S. intern at UW-Madison
3. Sophie Abou-Rizk, Chemistry and Environmental Studies (2021-2022) Ph.D. student, Harvard
4. Lizzy Kysela, Environmental Science (2020-2022) Post-B.S. intern at UW-Madison
5. Stephanie Elkins, Environmental Science (2020-2022) Ph.D. student, MIT
6. Zhiqing (Phoebe) Wen, Environmental Science (2020-2021)
7. Sebastian Utama, Chemical & Biological Engineering (2018-2021) Ph.D. student, UT Austin
8. McKayla Olig, Chemistry & Environmental Studies (2019-2020)
9. Jacob Angell, AOS & Environmental Studies (2019-2020)
10. Matilyn Bindl, AOS (2018-2020) Continued to Ph.D. @ UW-Madison\*
11. Ian Cooke, Mechanical Engineering, Mathematics (2018-2020) transferred to U. of Montana
12. Riley Herzog, AOS & Environmental Science (2019-2020) Ginger Bread House Preschool
13. Audriana Sadowicz, Chemical & Biological Engineering (2019-2020) West Monroe
14. Maya Welch, Biology (2019-2020) Wisconsin DNR
15. Aisha Moe, Mathematics & African Studies (2019) Madison Country Day School

16. Clara Jackson, Environmental Science (2018-2019) Continued to M.S. @ UW-Madison\*
17. Jacob Lynn, Applied Mathematics, Engineering, and Physics (2018-2019), Qualtrics
18. Madankui (Tao-ma) Tao, Env. Sci. & German (2017-2019) Ph.D. student, Columbia University
19. Peidong Wang, AOS & Mathematics (2016-2019) Ph.D. student, MIT
20. Emma Nelson, Env. Sci. (2017-2019) M.S. student, UW-Madison
21. Andy Kieckhefer, AOS (2018-2019) Implementation Specialist at ADP
22. Cristina Bahaveolos, Environmental Science (2018-2018) Undergraduate @ UW-Madison
23. Elise Penn, Geological Eng. & Applied Math (2015-2018) Ph.D. student, Harvard University
24. Anastasia Montgomery, Civil & Env. Eng. (2016-2018) Ph.D. student, Northwestern University
25. Madeline Isenberg, Env. Sci. (2016-2017) Sustainability Intern at Samsonite
26. Maria Castillo, Env. Sci. (2016-2017) M.S. MIT
27. Yuqi Shi, Env. Sci. (2016-2017) M.S. student, UW-Madison
28. Madeline Opie, Env. Sci. (2016-2017) Environmental Program Associate, Wisconsin DNR
29. Ya-Chi (Anita) Liu, Env. Sci. (2016-2017) Research Analyst, Kantar Health
30. Adam Hoefs, Env. Sci. (2017) Junior High School Coach at College Possible
31. Ashley Seufzer, Env. Sci. (2017) Biological Science Technician, USDA Agricultural Research Service
32. Claire Rebman, Env. Sci. (2017) Plant Pest and Disease Specialist, Wisconsin Department of Agriculture
33. Jonnathan Garcia-Huerta, Civil & Env. Eng. (2017) Undergraduate @ UW-Madison\*
34. Quinn Gavin, Geography (2016) Undergraduate @ UW-Madison\*
35. Colleen Schmit, Conservation Biology, Env. Studies, and Spanish (2014-2017) EAP Engagement Coordinator
36. Michael Larson, Mech Eng. (2015-2016) Energy Analyst, Solv LLC
37. Anna Bottum, Env. Sci. (2015-2016) Expense Analyst at TRC Global Mobility, Inc.
38. Clayton Groth, Env. Sci. (2015-2016) Software Developer at Digital Locale
39. Chloe Jacobsen, Chem. Engineering (2015) Product Developer Co-op, Kimberly- Clark Corporation
40. Ryan Kladar, Chemistry and Civil & Env. Eng. (2012-2015) Market Analyst, Advanced Intelligence for Energy Markets
41. Bryan Leung, Elec. & Comp. Eng. (2015-2016) Risk Engineering Associate, Chubb Insurance
42. Lewis Kunik, Computer Engineering (2016) Air Quality Consultant, Ramboll
43. Daniel Minunni, Civil & Env. Eng. (2015) Project Engineer at DAAR Engineering, Inc.
44. Arber Rrushaj, Chem. Engineering (2015) Unknown
45. Sam Menzies, Biochemistry (2015-2016) Sales Representative, 3M
46. Aida Ebrahimi, Env. Sci. (Fall 2015) GIS and Cartography Intern, Creative Associates International
47. Landen Nickel, Biology (2015) Analytical Chemist, Covance
48. Sarah Benish, Biology (2013 – 2015) Ph.D. student, University of Maryland
49. David Abel, Mech. Eng and Env. Studies (2014-2015) Continued to M.S. @ UW-Madison\*
50. Elizabeth Kopecky, Env. Sci. (2014 – 2015) Environmental Planner, Tetra Tech
51. Brianna Griffin, Geo. Engineering (2015) Geomechanical Engineer 1, Freeport-McMoRan Climax Operations
52. Keith Maki, Computer Science (2014) Certified Data Scientist with Applied ML Background
53. Andrew Wentland, AOS (2013) Continued to M.S. @ UW-Madison\*
54. Amanda Gumber, AOS (2012) Assistant Researcher, Space Science and Engineering Center
55. Olivia Clifton, Applied Math-Ecology (2011-2012) PhD Student, Columbia University\*
56. Alexandra Karambelas, AOS (2011-2012) Continued to Ph.D. @ UW-Madison\*
57. Jacob Oberman, Chem. Engineering (2009-2012) Delivery Lead, Accenture
58. Thomas Langel, Chem. Engineering (2010-2011) Instrument Engineer, Honeywell\*
59. Erik Gould, AOS (2010-2011) Server Systems Engineer, Epic\*
60. DJ Rasmussen, AOS (2008-2010) Ph.D. student, Princeton University
61. Daniel Barker, Biology (2007-2008) Senior Grant Writer, University of Southern California
62. Philip Thomas, Biology (2007-2008) Graduate Student, UW-Madison

63. Susanna Ehlers, Geography (2004-2007) Physical Scientist (Science Assistant), National Science Foundation\*

Post-Doctoral Fellows & Non-Student Interns

- Monica Harkey (2011-Present) Researcher, UW-Madison
- Rhianna Miles (2017-2018) University Services Program Associate at University of Wisconsin-Milwaukee
- Eva Cloo (2017) GIS/ Data Processor, Discovery Marine Limited
- Alana Weir (2016-2017) PhD student, University of Canterbury in New Zealand
- Drew Blumenthal (2016) Energy Efficiency/Demand Response Program Evaluation Consultant, Opinion Dynamics
- Meiyun Lin (2008-2010) Scientist, Princeton University