

Jessica D. Haskins

jhaskins@mit.edu

Education:

Cambridge, MA

July 2020 – present

Massachusetts Institute of Technology

- Postdoctoral Fellow in Civil & Environmental Engineering

Seattle, WA

Sep 2014 – June 2020

University of Washington

- Ph.D. in Atmospheric Science
- Master of Science in Atmospheric Science

Cambridge, MA

Sep 2010 – June 2014

Massachusetts Institute of Technology

- Bachelor of Science in Earth, Atmospheric, and Planetary Sciences
- Minor in Atmospheric Chemistry

Appointments:

Cambridge, MA

Sept. 2012- June 2014

MIT Civil & Environmental Engineering Department

Postdoctoral Fellow

- Advised by Colette Heald

Seattle, WA

Sep 2014 – June 2020

University of Washington

Research Assistant/Teaching Assistant

- Coadvised by Joel Thornton & Lyatt Jaegle

Zürich, Switzerland

June 2014-Aug. 2014

Swiss Federal Institute of Technology (ETH Zürich)

Visiting Student

- Advised by Ulrike Lohmann and Berko Sierau, resulting in a publication (Corbin et al. 2015).

Greenbelt, MD

January 2013

NASA Goddard Space Flight Center

Intern

- Worked on the Lunar Atmosphere Dust and Environment Explorer (LADEE) mission

Cambridge, MA

Sept. 2012- June 2014

MIT Earth, Atmospheric, & Planetary Sciences Department

Undergraduate Research Assistant

- Advised by Susan Solomon, resulting in a publication (Solomon et al., 2014)

Awards:

- 2020 National Science Foundation Atmospheric & Geospace Sciences Postdoctoral Fellowship
- 2015 Environmental Protection Agency Science To Achieve Results Graduate Fellow
- 2014 American Meteorology Society Graduate Fellow, sponsored by NASA's Earth Science Program
- 2014 Achievement Reward for Collegiate Scientists Graduate Fellow
- 2014 MIT Christopher Goetze Prize for Undergraduate Research

Publications:

Haskins, J. D., Thornton, J.A, Jaegle, L. (2020). Significant U.S. decreases in deposition of anthropogenic chloride from emission control. *In prep.*

Haskins, J. D., Lopez-Hilfiker, F. D., Lee, B. H., Shah, V., Wolfe, G. M., DiGangi, J., et al. (2019). Anthropogenic control over wintertime oxidation of atmospheric pollutants. *Geophysical Research Letters*, 46, 14826–14835. <https://doi.org/10.1029/2019GL085498>

Haskins, J. D., Lee, B. H., Lopez-Hilfiker, F. D., Peng, Q., Jaeglé, L., Reeves, J. M., et al. (2019). Observational constraints on the formation of Cl₂ from the reactive uptake of ClNO₂ on aerosols in the polluted marine boundary layer. *Journal of Geophysical Research: Atmospheres*, 124, 8851–8869. <https://doi.org/10.1029/2019JD030627>

Wang, X., Jacob, D. J., Eastham, S. D., Sulprizio, M. P., Zhu, L., Chen, Q., Alexander, B., Sherwen, T., Evans, M. J., Lee, B. H., **Haskins, J. D.**, Lopez-Hilfiker, F. D., Thornton, J. A., Huey, G. L., and Liao, H. (2019). The role of chlorine in global tropospheric chemistry, *Atmos. Chem. Phys.*, 19, 3981–4003, <https://doi.org/10.5194/acp-19-3981-2019>, 2019.

- Haskins, J. D.**, Jaeglé, L., Shah, V., Lee, B. H., Lopez-Hilfiker, F. D., Campuzano-Jost, P., et al. (2018). Wintertime gas-particle partitioning and speciation of inorganic chlorine in the lower troposphere over the Northeast United States and Coastal Ocean. *Journal of Geophysical Research: Atmospheres*, 123, 12,897– 12,916. <https://doi.org/10.1029/2018JD028786>
- C. Corbin, J., Othman, A., D. Allan, J., R. Worsnop, D., **D. Haskins, J.**, Sierau, B., Lohmann, U., and A. Mensah, A.: Peak-fitting and integration imprecision in the Aerodyne aerosol mass spectrometer: effects of mass accuracy on location-constrained fits, *Atmos. Meas. Tech.*, 8, 4615–4636, <https://doi.org/10.5194/amt-8-4615-2015>, 2015.
- Solomon, S., **Haskins, J. D.**, Ivy, D. J., & Min, F. (2014). Fundamental differences between Arctic and Antarctic ozone depletion. *Proceedings of the National Academy of Sciences of the United States of America*, 111(17), 6220–6225. <http://www.ncbi.nlm.nih.gov/pubmed/24733920>