Thérèse (Tess) S. Carter

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EDUCATION	
Ph.D., Atmospheric Chemistry and Physics	
Massachusetts Institute of Technology, Cambridge, MA	2022
Sc.B., Chemistry with honors	
Brown University, Providence, RI	2016
PROFESSIONAL EMPLOYMENT	
National Climate Assessment (NCA)	
Washington, DC	2013-2017
NCA Program Coordinator, ICF Contractor (Research Analyst)	2016-2017

NCA Program Coordinator, ICF Contractor (Research Analyst)

 Coordinated 8 NCA4 chapters, including air quality, forests, ecosystems, agriculture, and tribal and indigenous communities

Student Assistant, UCAR/ICF International Contractor

2013-2016

PUBLICATIONS

Carter, T.S., C.L. Heald, J.L. Jimenez, P. Campuzano-Jost, Y. Kondo, N. Moteki, J.P. Schwarz, C. Wiedinmyer, A.S. Darmenov, A.M. da Silva, and J.W. Kaiser (2020), How emissions uncertainty influences the distribution and radiative impacts of smoke from fires in North America, Atmos. Chem. Phys., 20, 4, 2073-2097.

Avery, C.W., T.S. Carter, K.L.M. Lewis, K. Reeves, and D.R. Reidmiller, 2018: Report Development Process. In Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA. doi: 10.7930/NCA4.2018.AP1

Carter, T., Clark, C., Fenn, M., Jovan, S., Perakis, S., Riddell, J., Schaberg, P., Greaver, T., and M. Hastings (2017), Mechanisms of nitrogen deposition effects on temperate forest lichens and trees, Ecosphere, 8, 3:e01717.

AWARDS AND HONORS

Ida M. Green Fellowship, MIT Sigma Xi Science Honors Society Voss Undergraduate Fellowship, Brown University 2017-2018

May 2016

Summer 2015

Royce Fellowship, Brown University	Summer 2015
Udall Scholarship Honorable Mention	Spring 2015
AGU Student Travel Grant & Research at Brown (RAB) Grant	Fall 2014

PRESENTATIONS

American Geophysical Union (AGU) Annual Meeting (San Francisco, CA, December 2019)

 Poster: Investigating carbonaceous aerosol in the western US (WE-CAN) and in Africa (ORACLES)

9th International GEOS-Chem Conference (Cambridge, MA, May 9, 2019)

- Oral Presentation: Investigating biomass burning aerosol in North America American Meteorological Society Conference (Phoenix, AZ, January 10, 2019)
- Oral Presentation: Investigating biomass burning aerosol in North America
 International Global Atmospheric Chemistry (IGAC) Conference (Takamatsu, Japan, Sep. 2018)
- Poster: Investigating biomass burning aerosol in North America MIT Emergency Operations Center (Cambridge, MA, August 2018)
- Oral Presentation on wildfires and their air quality impacts to MIT emergency managers And many others prior to 2017 related to the National Climate Assessment and undergrad work

TEACHING EXPERIENCE

1.092:	Travelling Research Environmental eXperience (TREX), Undergradu	iate, MIT
	Teaching Assistant	January 2020

ENVS 0510: International Environmental Law and Policy, Brown University

Teaching Assistant Fall 2015

SERVICE & PROFESSIONAL ACTIVITIES

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MIT	Co-organizer, MIT Atmospheric Chemistry Colloquium	2020-
	Research mentor, Undergraduate Research Opportunities Program (UROP)	2019-2020
	Associate Editor, Journal of Science Policy and Governance	2019-
	Participant, MIT Science Policy Initiative Executive Visit Days (ExVD)	Fall 2018
	Co-organizer, Mini-Undergraduate Research Opportunities Program (UROP)	2018
	Mentor, Laureates and Leaders Graduate Student Mentoring Initiative	2017-
	Manuscript reviewer for Scientific Reports and Water Environmental Research	
NCA	Convener, National Adaptation Forum session, Sustained Assessment	2017
Brown	n University	
	Advisory Council Member, Institute at Brown for Environment and Society	2016-
	Organizer, Science Communication and Professional Development Workshop	2015
	Co-chair, Chemistry Department Undergraduate Group	2014-2016
	Student Roundtable with Secretary of the Interior Sally Jewell	2014
	Mentor, Women in Science and Engineering (WiSE) Peer Advising	2013-2016
	Mentor, Meiklejohn Peer Advising for Freshmen	2013-2016