

PROFESSIONAL APPOINTMENTS

Research Scientist—University of Washington Department of Civil and Environmental Engineering	2016–Present
Postdoctoral Associate—University of Minnesota Department of Bioproducts and Biosystems Engineering	2015–2016

EDUCATION

Ph.D., Civil, Environmental, and Geo- Engineering (public health minor)— University of Minnesota	2009–2014
B.M.E., Mechanical Engineering (<i>cum laude</i>)—University of Minnesota	2002–2006

SELECTED PUBLICATIONS (*=corresponding author; full list at <https://bit.ly/2DzkZoO>)

3. Kelp, M., C.W. Tessum*, and J.D. Marshall. Orders-of-magnitude speedup in atmospheric chemistry modeling through neural network-based emulation. *In review, Atmos. Env.*
<https://arxiv.org/abs/1808.03874>.
2. Tessum, C.W.*, J.D. Hill, and J.D. Marshall (2017) InMAP: A model for air pollution interventions. *PLoS ONE*. **12**:4 [e0176131](https://doi.org/10.1371/journal.pone.0176131).
1. Tessum, C.W., J.D. Hill, and J.D. Marshall (2014) Life cycle air quality impacts of conventional and alternative light-duty transportation in the United States. *Proc. Natl. Acad. Sci. U.S.A.* **111**:52 [18490–18495](https://doi.org/10.1073/pnas.1318495111).

PROGRAMMING LANGUAGES (In order of experience)

Go (Golang); Python; R; Javascript; SQL; FORTRAN; C; MATLAB; LabVIEW

LIBRARIES AND FRAMEWORKS

Tensorflow; Kubernetes; HPC; Google Cloud Platform; Git/Github; Travis CI; PostGIS; React

OPEN-SOURCE PROJECTS (<https://github.com/ctessum>)

<https://github.com/spatialmodel/inmap>; <https://github.com/gonum/plot/>

OTHER PROFESSIONAL EXPERIENCE

English Teacher: Instituto Cultural Peruano Norteamericano; Chiclayo, Peru	2008
Engineer: Energy Management Solutions, Inc.; Minneapolis, MN	2007–2008
Aerodynamics Intern: Volvo Car Corporation; Gothenburg, Sweden	2006
Automation Intern: Voith Paper AG; Heidenheim an der Brenz, Germany	2006

PROFESSIONAL SERVICE

Grant Application Reviewer: NSF, Health Effects Institute, and US EPA

Report Peer-Reviewer: US Department of Energy

Journal Peer-Reviewer: *Environmental Science and Technology*, *Atmospheric Environment*, *Environmental Research Letters*, *Proceedings of the Royal Society of London A*

Member: International Society for Environmental Epidemiology and American Association for Aerosol Research