Curriculum Vitae *Jun 2018*

Dien Wu

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Education

University of Utah	Ph.D. (Atmospheric Sciences)	Expected 2019	Salt Lake City, UT, USA
University of Utah	M.S. (Atmospheric Sciences)	2014 – 2016	Salt Lake City, UT, USA
Florida State University (joint with NUIST)	B.S. (Meteorology)	2012 – 2014	Tallahassee, FL, USA
Nanjing University of Information Science and Technology (NUIST)		2010 – 2012	Nanjing, Jiangsu, China

Employment

Graduate Research Assistant, Dept. of Atmospheric Sciences, University of Utah, 2014 – present

Peer-Reviewed Publications

1. ***Wu, D.***, Lin, J. C., Oda, T., Ye, X., Lauvaux, T., Yang, E. G., and Kort, E. A.: A Lagrangian Approach Towards Extracting Signals of Urban CO_2 Emissions from Satellite Observations of Atmospheric Column CO_2 (XCO_2): X-Stochastic Time-Inverted Lagrangian Transport model ("X-STILT v1.1"), *Geosci. Model Dev. Discuss.*, https://doi.org/10.5194/gmd-2018-123, in review, 2018.

2. Ye, X., Lauvaux, T., Kort, E. A., Oda, T., Feng, S., Lin, J. C., Yang, E., and ***Wu, D***.: Constraining fossil fuel CO_2 emissions from urban area using OCO-2 observations of total column CO_2, *Atmos. Chem. Phys. Discuss.*, https://doi.org/10.5194/acp-2017-1022, in review, 2017.

3. Hernandez, A.J., L.A. Morales-Rincon, ***D. Wu***, D. Mallia, J.C. Lin, and R. Jimenez, Transboundary transport of biomass burning aerosols and photochemical pollution in the Orinoco river basin, *Atmospheric Environment*, In Review.

4. Mallia, D.V., A. Kochanski, ***D. Wu***, C. Pennell, W. Oswald, and J.C. Lin, 2017: Wind-Blown Dust Modeling Using a Backward-Lagrangian Particle Dispersion Model. *J. Appl. Meteor. Climatol.*, 56, 2845–2867, https://doi.org/10.1175/JAMC-D-16-0351.1.

5. Lin, J. C., Mallia, D. V., ***Wu, D***., and Stephens, B. B.: How can mountaintop CO_2 observations be used to constrain regional carbon fluxes?, *Atmos. Chem. Phys.*, 17, 5561-5581, https://doi.org/10.5194/acp-17-5561-2017, 2017.

Conference presentations

Wu, D., J. C. Lin, Oda, T., Ye, X., Lauvaux, T., Yang, E., and Kort, E. A. (2017), Towards Interpreting the Signal of CO2 Emissions from Megacities by Applying a Lagrangian Receptor-oriented Model to OCO-2 XCO_2 data, *2017 AGU Fall Meeting*, New Orleans, LA, 11-15 Dec.

Mallia, D. V., A. Kochanski, **D. Wu**, S. Urbanski, and J. C. Lin (2016), Integrating wildfire plume rises within atmospheric transport models, *2016 AGU Fall meeting*, San Francisco, CA, 12-16 Dec.

Wu, D., D. V. Mallia, S. P. Urbanski, J. C. Lin (2016), Top-down Constraints on CO Emissions from Wildfire Inventories Using a Receptor-oriented Lagrangian Particle Dispersion Model, *AMS Third Conference on Biogeoscience*, 20-25 June, Salt Lake City, UT.

Mallia, D. V., J. C. Lin, **D. Wu**, and B. Stephens (2016), How can mountaintop CO_2 observations be used to constrain regional carbon fluxes?, *32nd Conference on Agricultural and Forest Meteorology*, 20-25 June, Salt Lake City, UT.

Lin, J. C., B. B. Stephens, D. V. Mallia, **D. Wu**, H. Duarte, S. Urbanski, and J. Ehleringer (2015), How can we constrain regional carbon fluxes in the American Rockies from atmospheric measurements?, *5th NCAP and AmeriFlux Joint Meeting*, 26-29 January, Washington, D.C.

Lin, J. C., D. V. Mallia, **D. Wu**, S. Urbanski, and B. B. Stephens (2014), Quantifying the influence of biomass burning on measurements site in the western U.S., *AGU Fall Meeting 2014*, 15-19 Dec, San 3 Francisco, CA.

Scholarships and Honors

- Pass the Graduate Qualifying Exam with distinction, University of Utah, 05/2015
- Gradate with Magna cum laude, Florida State University, 05/2014
- Dean's List, Florida State University, Fall 2012, Spring 2013, Fall 2013, Spring 2014
- Prize for being one of the excellent class leaders, NUIST, 06/2012
- Second tier scholarship (top 10%), NUIST, 2010, 2011

Computer skills

Programming languages: R, Fortran, GrADS graphics, MATLAB, C (beginner), LaTeX
Operating systems: Linux, Mac OS
Modeling experience: WRF-ARW, STILT

Languages

English, Chinese