

Department of Earth and Atmospheric Sciences, University of Houston

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Email: liuleiapply@gmail.com

Education

Ph.D. Atmospheric Sciences

Sep 2012 - present

University of Houston, Houston, TX, USA

Advisor: Robert Talbot

B.S. Atmospheric Sciences

Sep 2008 - Jun 2012

Lanzhou University, Lanzhou, China

Research Experience

Research Assistant

Sep 2012 – present

University of Houston, Department of earth and Atmospheric Sciences

Advisor: Robert Talbot

Field Campaign: Collect ozone, mercury and biomass burning trace gases in south US.

Laboratory: Analyze tropospheric ozone, mercury and biomass burning emissions characteristics and the relationship with meteorological factors.

Publications

Liu Lei, Talbot Robert, Xin Lan, Influence of Climate Change and Meteorological Factors on Houston's Air Pollution: Ozone a Case Study, published, *Atmosphere*, **2015**, 6, 623-640; doi: 10.3390/atmos6050623

Liu Lei, Talbot Robert, Spatial and Temporal Distributions of Speciated Atmospheric Mercury in Southeastern Texas, to be submitted, **2016**

Liu Lei, Talbot Robert, Emission estimates of trace gases and volatile organic compounds from a controlled grassland fire experiment, to be submitted, **2016**

Presentation

Liu, Lei, Influence of Climate Change and Meteorological Factors on Houston's Air Pollution: Ozone a Case Study, Air & Waste Management Association-Gulf Coast Chapter, November 2015.

Liu, Lei, Influence of Climate Change and Meteorological Factors on Houston's Air Pollution: Ozone a Case Study, The first Texas Air Quality Symposium, Austin, Texas, April 2015.

Liu, Lei, Robert Talbot, A Meteorological Climatology for the Past 23 Years to Quantify Potential Changes in Air Flow and Ozone in the Houston Area, American Association of Petroleum Geologists (AAPG), Houston, Texas, April 2014.

Workshop

American Geophysical Union annual meeting, San Francisco, California, 2015

Assistant of the chief forecaster, Meteorological Bureau, Chongqing, China, Jun 2009 - Sep 2009

Teaching Experience

Teaching Assistant, Climate Change & Data Analysis (IDL) 2012/2013

Professor Robert Talbot & Xun Jiang

University of Houston, Earth and Atmospheric Sciences

Create and grade homework assignments and exam questions, lead weekly discussion sections, and hold office hours.

Service and Honors

Reviewer: British Journal of Applied Science and Technology 2015 – present

Outstanding Academic Achievement in Atmospheric Sciences, University of Houston 2015

Second Prize, National High School Physics Olympiad, China. 2008

“Gold Key” All-round Development Scholarship, China. 2008

Computer Skills

Operating systems: Linux, Windows, Mac OS.

Programming languages: Matlab, Fortran, IDL, Python, R

Document preparation: Microsoft Office Suite, Open Office Suite