Dan Tong

Center for Earth System Science
Tsinghua University
Beijing, 100084, P.R. China

E-mail: td13@mails.tsinghua.edu.cn
Mobile: (+86)152-1080-7863

Education

- 2013.08 - Present, Ph.D. Candidate, Environmental Engineering, Tsinghua University, Beijing, China
- 2009.09 - 2013.07, B.Eng., Environmental Engineering, Beihang University, Beijing, China

Academic Experience

- 2016.03 – Present, Visiting Doctoral Student, Department of Earth System Science, University of California, Irvine, Irvine, USA

Professional Skills

- English: passed Tsinghua English Proficiency Test II and College English Test, Band 6
- Computer language: VBA, NCL, MATLAB, etc.
- Professional skill: WRF-CMAQ modeling

Research & Projects

Research Interests： Development of emission inventory in China; the complex interactions of energy, air pollutions and climate change for global power sector.

2013.01-2013.06 Undergraduate graduation design: An inventory of primary air pollutants and CO_2 emissions from cement production in China

- Collected cement productions, provincial technology distributions and air pollutants' emission factors; Analyzed the emission trends and results

2013.10-2014.01 Project: Pathway of achieving air quality target in Beijing-Tianjin-Hebei region in 2017

- Performed 2017 air quality forecasting simulations on various emission scenarios and evaluate the feasibility of each scenario based on The Action Plan.

2014.03-2014.10 Research: Development of global unit-based thermal power plants emission inventory

- Presented a new global database of emissions from power plants burning fossil fuels, biomass or waste in 2010 based on a bottom-up, spatially-explicit methodology.

2014.11-2015.05 Research: Improvement of unit-based thermal power plants emission inventory in China

- Developed high-resolution inventory of technologies, activities, and emissions of coal-fired power plants in China from 1990 to 2010

2015.10-2016.01 Project: Pathway of achieving air quality target in Beijing-Tianjin-Hebei region up to 35ug/m^3 in 2030

- Development of various scenarios including energy structure adjustment and end-of-pipe measures to achieve $PM_{2.5}$ concentration 35 ug/m^3 in 2030

Publications

- Liu F, Zhang Q, **Tong D**, et al. High-resolution inventory of technologies, activities, and emissions of coal-fired power plants in China from 1990 to 2010[J]. Atmospheric Chemistry and Physics, 2015, 15(23): 13299-13317.

Awards and Honors

- Excellent Graduate of Beijing City (One student per department), Beijing Municipal Education Commission, China, 2013
- First-class Academic Excellence Scholarship, Beihang University, China, 2011-2012
- National Scholarship, Ministry of Education, China, 2011-2012
- Excellent Student of Beihang University, Beihang University, China, 2011-2012
- Excellent Student of Beijing City (One student per department), Beijing Municipal Education Commission, China, 2010-2011
- Excellent Student of School of Chemistry and Environment, Beihang University, China, 2011 - 2012
- National Encouragement Scholarship, Ministry of Education, China, 2010-2011
- Excellent Student of Beihang University, Beihang University, China, 2010-2011
- Third-class Academic Excellence Scholarship, Beihang University, China, 2010-2011
- Excellent Student Cadre of School of Chemistry and Environment, Beihang University, China, 2010 – 2011
- National Scholarship, Ministry of Education, China, 2009-2010
- Second-class Academic Excellence Scholarship, Beihang University, China, 2009-2010
- Excellent League Member of Beihang University, Beihang University, China, 2009-2010
- Excellent Student of School of Chemistry and Environment, Beihang University, China, 2009 - 2010