

# CURRICULUM VITAE

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## Education

- 2010–2015 **Ph.D.** in Atmosphere Science      The Hong Kong University of Science and Technology, Kowloon, Hong Kong  
Thesis title: *Ambient Characteristics of Elemental Carbon and Black Carbon in the Pearl River Delta and the Application of Elemental Carbon as a Combustion Aerosol Tracer*      Supervisor: Prof. Jian Zhen Yu
- 2006–2007 **M.S.** in Environmental Engineering      The Hong Kong University of Science and Technology, Kowloon, Hong Kong
- 2002–2006 **B.S.** in Mechanical Engineering      Beijing Institute of Technology, Beijing, China

## Employment

- Mar 2015 – present **Post-doc Fellow**      The Hong Kong University of Science and Technology, Division of Environment, Kowloon, Hong Kong
- OC/EC instrument operation and protocol investigation
  - OC/EC measurement data analysis
- Aug 2007 – Jan 2010 **Research Asst.**      The Hong Kong University of Science and Technology, Division of Environment, Kowloon, Hong Kong
- Worked on the filter-based PM<sub>2.5</sub> speciation sampling network (4 sites) in the Pearl River Delta (PRD) region, China
  - Installed and operated Hi-vol and SASS samplers and analyzed samples

## Publications

**Wu, C.**, Ng, W. M., Huang, J., Wu, D., and Yu, J. Z.: Determination of Elemental and Organic Carbon in PM<sub>2.5</sub> in the Pearl River Delta Region: Inter-Instrument (Sunset vs. DRI Model 2001 Thermal/Optical Carbon Analyzer) and Inter-Protocol Comparisons (IMPROVE vs. ACE-Asia Protocol), [Aerosol Sci Tech, 46, 610-621, 10.1080/02786826.2011.649313, 2012.](https://doi.org/10.1080/02786826.2011.649313)

Wu, D., **Wu, C.**, Liao, B., Chen, H., Wu, M., Li, F., Tan, H., Deng, T., Li, H., Jiang, D., and Yu, J. Z.: Black carbon over the South China Sea and in various continental locations in South China, [Atmos Chem Phys, 13, 12257-12270, DOI 10.5194/acp-13-12257-2013, 2013.](https://doi.org/10.5194/acp-13-12257-2013)

Yu, H., **Wu, C.**, Wu, D., and Yu, J. Z.: Size distributions of elemental carbon and its contribution to light extinction in urban and rural locations in the pearl river delta region, China, [Atmos Chem Phys, 10, 5107-5119](#), DOI 10.5194/acp-10-5107-2010, 2010.

Deng, X., Wu, D., Yu, J., Lau, A. K., Li, F., Tan, H., Yuan, Z., Ng, W. M., Deng, T., and **Wu, C.**: Characterization of secondary aerosol and its extinction effects on visibility over the Pearl River Delta Region, China, [J Air Waste Manage, 63, 1012-1021](#), 2013.

## Working Papers

**Wu, C.**, and Yu, J. Z.: Determination of Primary combustion source OC/EC ratio using ambient OC and EC measurements: Secondary OC-EC correlation minimization method,” ([ACPD under review](#))

**Wu, C.**, Huang, J., Wu, D., and Yu, J. Z.: Characterization of carbonaceous aerosols in Pearl River Delta region from one year time-resolved measurement (*to be submitted*)

**Wu, C.**, Huang, J., Wu, D., and Yu, J. Z.: Optical properties of black carbon aerosols in the Pearl River Delta (PRD) region: implications for light absorption enhancement (*to be submitted*)

**Wu, C.**, and Yu, J. Z.: Evaluation of linear regression techniques for atmospheric application: the importance of appropriate weighting (*to be submitted*)

**Wu, C.**, Yu, J. Z., Ng, W. M., Huang, X. H., Wu, D., and Lau, A. K.: Temporal and Spatial Patterns of PM<sub>2.5</sub> at Three Sites in the Pearl River Delta, China: One-Year Observations (*to be submitted*)

## Presentations

Oral: Primary combustion source OC/EC ratio determination: Evaluation of Minimum R Squared (MRS) method. 2 Sep 2014, International Aerosol Conference, Busan, Korea.

Oral: Determination of primary organic carbon-to-elemental carbon (OC/EC) ratio in the EC tracer method. 14 Jan 2014, Regional Air Quality Management (RAQM) Conference, Hong Kong

## Skills

- Online instrument experience: Aethalometer, RT-ECOC analyzer, SMPS
- Filter sampling: SASS, RAAS, Hi-vol, MOUDI
- Filter analysis: Gravimetric, IC, OC/EC
- Programing skills: Igor Pro, FORTRAN and Matlab for measurement data processing and visualization

## Contact Information for References

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