

FU, Tzung-May

Dept. of Civil & Structural Engineering, Hong Kong Polytechnic University

Hung Hom, Kowloon, Hong Kong

Tel: (+852) 2766-4489; Fax: (+852) 2334-6389

Email: cetmfu@polyu.edu.hk; URL: www.cse.polyu.edu.hk/~cetmfu

Academic qualifications

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|----------------------------|--------------------------------|-------|-----------------|
| Harvard University | Earth & Planetary Sciences | Ph.D. | 2002.9 – 2007.9 |
| Harvard University | Engineering & Applied Sciences | S.M. | 2002.9 – 2005.6 |
| National Taiwan University | Atmospheric Sciences | M.S. | 2000.9 – 2002.6 |
| National Taiwan University | Atmospheric Sciences | B.S. | 1996.9 – 2000.6 |

Academic positions

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|----------------------------------|--|-------------------|
| Assistant Professor | | 2008.1 to present |
| Hong Kong Polytechnic University | Civil and Structural Engineering | |
| Postdoctoral Fellow | | 2007.9 – 2007.12 |
| Harvard University | School of Engineering and Applied Sciences | |

Publication records

1. **Fu, T.-M.**, D.J. Jacob, and C.L. Heald (2009), Aqueous-phase reactive uptake of dicarbonyls as a source of organic aerosol over eastern North America, *Atmos. Environ.*, 43(10), doi:10.1016/j.atmosenv.2008.12.029.
2. Guo, H., A.J. Ding, T. Wang, I.J. Simpson, D.R. Blake, B. Barletta, S. Meinardi, **T.-M. Fu**, Y.S. Li, and W.T. Hung (2009), Source origins, modeled profiles and apportionments of halogenated hydrocarbons in the greater Pearl River Delta region, southern China, *J. Geophys. Res.*, doi:10.1029/2008JD011448.
3. **Fu, T.-M.**, D.J. Jacob, F. Wittrock, J.P. Burrows, M. Vrekoussis, and D.K. Henze (2008), Global budgets of atmospheric glyoxal and methylglyoxal, and implications for formation of secondary organic aerosols, *J. Geophys. Res.*, 113, D15303, doi:10.1026/2007JD009505.
4. Henze, D.K., J.H. Seinfeld, N.L. Ng, J.H. Kroll, **T.-M. Fu**, D.J. Jacob, and C.L. Heald (2008), Global modeling of secondary organic aerosol formation from aromatic hydrocarbons: high- vs. low-yield pathways, *Atmos. Chem. Phys.*, 8, 2405-2401.
5. Liu, C.-M., M.-T. Yeh, S. Paul, Y.-C. Lee, D.J. Jacob, **T.-M. Fu**, J.-H. Woo, G.R. Carmichael, and D.G. Streets (2008), Effect of anthropogenic emissions in East Asia on regional ozone levels during spring cold continental outbreaks near Taiwan: a case study, *Environ. Model. Software*, 23(5), 579-591, doi:10.1016/j.envsoft.2007.08.007.
6. Millet, D.B., D.J. Jacob, K.F. Boersma, **T.-M. Fu**, T.P. Kurosu, K. Chance, C.L. Heald, and A. Guenther (2007), Spatial distribution of isoprene emissions from North America derived from formaldehyde column measurements by the OMI satellite sensor, *J. Geophys. Res.*, 113, D02307, doi:10.1029/2007JD008950.
7. **Fu, T.-M.**, D.J. Jacob, P.I. Palmer, K. Chance, Y X. Wang, B. Barletta, D.R. Blake, J.C. Stanton, and M. J. Pilling (2007), Space-based formaldehyde measurements as

- constraints on volatile organic compound emissions in East and South Asia, *J. Geophys. Res.*, 112(D6), D06312, doi:10.1029/2006JD007853.
8. Wang, Y.X., M. B. McElroy, R. V. Martin, D. G. Streets, Q. Zhang, and **T.-M. Fu** (2007), Seasonal variability of NO_x emissions over east China constrained by satellite observations: Implications for combustion and microbial sources, *J. Geophys. Res.*, 112, D06301, doi:10.1029/2006JD007538.
 9. Sauvage, B., R. V. Martin, A. van Donkelaar, X. Liu, K. Chance, L. Jaegle, P. I. Palmer, S. Wu, and **T.-M. Fu** (2007), Remote sensed and in situ constraints on processes affecting tropical tropospheric ozone, *Atmos. Chem. Phys.*, 7, 815-838.
 10. van Donkelaar, A., R. V. Martin, R. J. Park, C. L. Heald, **T.-M. Fu**, H. Liao, and A. Guenther (2007), Model evidence for a significant source of secondary organic aerosol from isoprene, *Atmos. Environ.*, 41, 1267-1274, doi:10.1016/j.atmosenv.2006.09.051.
 11. Palmer, P.I., D.S. Abbot, **T.-M. Fu**, D.J. Jacob, K. Chance, T.P. Kuruso, A. Guenther, C. Wiedinmyer, J.C. Stanton, M.J. Pilling, S.N. Pressley, B. Lamb, and A.L. Sumner (2006), Quantifying the seasonal and interannual variability of North American isoprene emissions using satellite observations of formaldehyde column, *J. Geophys. Res.*, 111, D12315, doi:10.1029/2005JD006689.
 12. Liu, X., K. Chance, C.E. Sioris, T.P. Kurosu, R.J.D. Spurr, R.V. Martin, **T.-M. Fu**, J.A. Logan, D.J. Jacob, P.I. Palmer, M.J. Newchurch, I.A. Megretskaya, and R. Chatfield (2006), First directly-retrieved global distribution of tropospheric column ozone from GOME: comparison with the GEOS-CHEM model, *J. Geophys. Res.*, 111, D02308, doi:10.1029/2005JD006564.
 13. Jiang, X., Q. Xu, S.K.W. Dertinger, A.D. Stroock, **T.-M. Fu**, and G.M. Whitesides (2005), A general method for patterning gradients of biomolecules on surfaces using microfluidic networks, *Anal. Chem.*, 77(8), 2338-2347, doi:10.1021/ac048440m.
 14. **Fu, T.-M.**, and J.P. Chen (2001), Effect of microphysical processes on CCN number concentrations in the marine boundary layer, *Proceedings of 7th National Conference on Atmospheric Sciences*, 254-256. National Science Council, September 25-27, 2001, Taipei, China.
 15. **Fu, T.-M.**, M.H. Lo, and J.P. Chen (2000), Time-scale analysis on the interactions between turbulence, diffusion, sedimentation and condensational growth of cloud droplets, *Proceedings of 13th International Conference on Clouds and Precipitation*, Vol. 1, 117-120. ICCP, August 14-18, 2000, Reno, USA.