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HUAIZHU OLIVER GAO

Biography

Dr. Gao is an Associate Professor in the graduate fields of 1) Civil and Environmental Engineering (Transportation Systems Engineering), 2) Systems Engineering, 3) Cornell Institute of Public Affairs (CIPA), and 4) Air Quality in Earth and Atmospheric Science at Cornell University. His research focuses on transportation systems, environment (especially air quality and climate change) energy, and sustainable development. He also studies sustainable food systems, quantifying and mitigating green-house gas emissions from food supply chains. He is a member of Transportation Research Board Committee on Transportation and Air Quality (ADC20), a member of Transportation Research Board Committee on Maintenance Equipment (AHD60), an academic member on the FACA Committee of US EPA MOVES model development, and a member (invited) on the editorial board of the international journal Transportation Research Part D: Transport and Environment. Gao received his graduate degrees in Statistics, and M.S. in Agriculture and Resource Management from the University of California at Davis in 2004, M.S. in 1999, and dual undergraduate degrees in Environmental Science in 1996 from Tsinghua University. After joining Cornell, Gao was a quant in the modeling division at the Rohatyn Group, L.L.C., specializing in emerging markets.

Research Interests

Gao's research interests include transporta

systems; mobile emissions inventory and environment and energy impacts of alternative engine, infrastructure) technologies, methodology mathematical modeling & operations research environmental economics and complex network supply chain.

Selected Publications

- ▶ Stasko, Timon H., Oliver Gao. 2012. "Emission management strategies: repair/retrofit versus environmental regulation." *Transportation and Practice* 46 (8): 1216-1226.
- ▶ Wang, Xun, Oliver Gao. 2011. "[Traveler mass \(PM2.5\) and number concentration environments in New York City.](#)" *Transport and Environment* 16 (5): 384-394.
- ▶ Kamarianakis, Y., Oliver Gao, B. Holmér. "[Modeling and forecasting of diesel particulate emissions](#)" *Transportation Research Part D: Transport and Environment* (6): 435-443.
- ▶ Nicholon, Charles, Miguel Gomez, Oliver Gao. "Increased Localization for a Multiple-Product Dairy in the United States." *Food Policy* 36 (2): 125-132.
- ▶ Kamarianakis, Yiannis, Oliver Gao. 2011. "Transport dynamics in instantaneous error Transition Regression." *Environmental Modelling* (4): 1320-1326.

[see more publications](#)

Selected Awards and Honors

- ▶ James and Mary Tien Excellence in Teaching (Department of Engineering) 2010
- ▶ Nomination: Kendall S. Carpenter Memorial Award (University) 2010
- ▶ University of California Transportation Research Award 2004
- ▶ NSF Future Engineering Education Scholarship 2004
- ▶ Tsinghua University M.S. Thesis Award 2004

Websites

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