

Council for International Teaching and Research

GLOBAL SCHOLARS



2012-13 Princeton Global Scholar Tong Zhu

Tong Zhu is a world specialist on air pollution. He studies everything we breathe, from minute atmospheric changes above the Tibetan Plateau to city-blanketing clouds of industrial smog. A pioneering researcher of strategies to mitigate pollution in the atmosphere, he led the team that formulated the Chinese government's measures in advance of the 2008 Beijing Olympics, and he has become a prominent scholarly voice in the increasingly urgent field of air pollution control.

He teaches at Peking University, a major research institution in Beijing, where he is the Cheung Kong Chair Professor in the College of Environmental Sciences and Engineering.

Zhu also directs Peking University's Center for Environment and Health and is currently the principal investigator on more than 20 climate-related research projects. He leads major international collaborations on different aspects of air pollution, such as the recent CAREBeijing (Campaigns of Air Quality Research in Beijing and Surrounding Regions) project that involved 200 scientists and students from China, Germany, and the U.S., and an ongoing EU-funded investigation of public health impacts of greenhouse gas emissions reduction strategies in urban environments.

His own research encompasses a multitude of environmental issues: atmospheric transport and transformation of organic pollutants; air-surface exchange of mass and energy; heterogeneous reactions on the surface of fine particles; oxidation capacity in the Tibetan Plateau's lower atmosphere; and the impact of air pollution on human health and he has published his findings in more than 100 peer-reviewed papers in prominent English-language journals. He is associate editor of the *Journal of Geophysical Research: Atmospheres* and serves on numerous editorial boards and committees, including the International Global Atmospheric Chemistry (IGAC) Scientific Steering Committee, which he has co-chaired since 2009.

At Princeton Tong Zhu is a catalyst for research and teaching on the frontiers of climate change and the health impacts of air pollution. His appointment as a Global Scholar, made possible by a generous gift from C.H. Tung, is significantly advancing environmental research efforts in the Department of Civil and Environmental Engineering and the Princeton Environmental Institute, and adding a vital global perspective to the Program in Science, Technology, and Environmental Policy in the Woodrow Wilson School of Public and International Affairs. Further, Zhu is strengthening Princeton's historic connections with Chinese universities by hosting Princeton students in Beijing during their field research trips and helping them to establish additional academic collaborations within China.