Yi Yin

Associate Professor of Environmental Studies

Yi Yin stands at the intersection of ecology and atmospheric science. Her focus centers on the complex interplay of carbon, water, and energy between the Earth's surfaces and the atmosphere. Delving deep into the terrestrial carbon cycle, she aims to shed light on how these processes respond to climate change, with a keen emphasis on understanding the ecological and human ramifications of extreme climate events like heatwaves, droughts, wildfires, and floods. Utilizing a diverse set of tools—ranging from in-situ measurements and remote sensing to data assimilation, atmospheric inversions, earth system modeling, and machine learning—Yin aspires to refine our projections about future environmental shifts. An emerging facet of her work also underscores environmental and climate justice. At the core of her research is the drive to offer actionable insights that fortify decision-making in the realms of climate mitigation and adaptation.

In her earlier roles, Yin served as a research scientist at the California Institute of Technology (Caltech). She also held postdoctoral positions at the Jet Propulsion Laboratory (JPL) and Le Laboratoire des Sciences du Climat et de l'Environnement (LSCE).

Research Interests
Climate change, carbon cycle, methane emissions, remote sensing, atmospheric inversions, environmental justice

EDUCATION
- 2012 Ph.D (Ecology), Peking University, Beijing, China
- 2006 B.S. (Physical Geography), Beijing Normal University, Beijing, China

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