



2017 Chinese Environmental Scholars Forum

Sibley Auditorium, UC Berkeley
May 20-21, 2017

Saturday Morning – May 20, 2017

- 7:30 – 8:30 Registration & Breakfast
- 8:30 – 9:30 Opening Remarks** *Moderator: XU, Zexuan*
- 8:30 – 8:45 **DENG, Hang**; President of CESF
- 8:45 – 9:00 **HUBBARD, Susan**; Associate Lab Director, Earth & Environmental Science Area, Lawrence Berkeley National Laboratory
- 9:00 – 9:15 **REMICK, Carolyn**; Executive Director, U.S./China Clean Energy Research Center for Water-Energy Technologies
- 9:15 – 9:30 **MI, Baoxia**; Assistant Professor, Department of Civil & Environmental Engineering, UC Berkeley
- 9:30 – 12:15 Plenary Session** *Moderator: DENG, Hang*
- 9:30 – 10:00 “Pathway for Bending the Curved” **(invited)**
COLLINS, Bill; Director, Climate and Ecosystem Science Division, Lawrence Berkeley National Laboratory
- 10:00 – 10:15 Coffee Break
- 10:15 – 10:45 “Toward a Clean Power System in China: Lessons from the Past” **(invited)**
LIN, Jiang; Staff Scientist, Energy Technologies Area, Lawrence Berkeley National Laboratory
- 10:45 – 11:15 “Subsurface Energy Application: Cross-Cutting Research Needs and the Role of Deep Geoscience Observatories” **(invited)**
BIRKHOLZER, Jens; Director, Energy Geosciences Division, Lawrence Berkeley National Laboratory
- 11:15 – 11:45 “Multiscale Pore Structure and its Effect on Gas Transport in Organic-rich Shale” **(invited)**
ZHANG, Dongxiao; Professor and Dean, College of Engineering, Peking University
- 11:45 – 12:15 Panel Discussion & Concluding Remarks
- 12:15 – 12:30 Group Photo
- 12:30 – 13:30 Lunch & Networking



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Saturday Afternoon – May 20, 2017

- 13:30 – 15:15 S1: Hydroclimate, Water Resources and Big Data**
Session Chairs: XU, Zexuan & ZHAN, Wang
- 13:30 – 14:00 “Hyperion: Understanding Hydroclimate Data with Use-Inspired Metrics” **(invited)**
ULLRICH, Paul; Assistant Professor, Department of Land, Air and Water Resources, University of California, Davis
- 14:00 – 14:15 “How Controllable is Stratospheric Solar Radiation Management through SO₂ Injection?”
DAI, Zhen; Harvard University
- 14:15 – 14:30 “Effects of Light-absorbing Aerosol Deposition on Snow Albedo over the Tibetan Plateau with Important Climatic Implications”
HE, Cenlin; University of California, Los Angeles
- 14:30 – 14:45 “Permafrost Degradation and its Eco-hydrological Impacts on the Northeastern Tibetan Plateau”
QIN, Yue; Tsinghua University, visiting at LBNL
- 14:45 – 15:00 “Hydrologic Cycle Characteristics of Land-Atmosphere System Based on GIS and RIEMS at Heihe River Basin, China”
ZOU, Songbin; Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences
- 15:00 – 15:15 “Assessing Groundwater Salinization in Closed Hydrologic Basin”
Guo, Zhilin; University of California, Davis
- 15:15 – 15:30 Coffee Break
- 15:30 – 16:45 S2: Water-Energy / Carbon-Water Nexus**
Session Chairs: DENG, Hang & LI, Xinyue
- 15:30 – 16:00 “Water Management Challenges of Domestic Oil and Gas Development” **(invited)**
STRINGFELLOW, William; Staff Engineer, Energy Geoscience Division, Lawrence Berkeley National Laboratory
- 16:00 – 16:15 “Geochemical Reactions Alter Porosity and Permeability of Shale Matrixes during Hydraulic Fracturing”
LI, Qingyun; Stanford University
- 16:15 – 16:30 “Large-scale Wind and Solar Farms in Sahara Increase Precipitation and Vegetation”
LI, Yan; University of Illinois at Urbana Champaign
- 16:30 – 16:45 “Novel Non-Proprietary Technologies to Remove Nutrients from Onsite Wastewater”
MAO, Xinwei; Stony Brook University
- 16:45 – 17:00 Poster Pop-up**
- 17:00 – 18:00 Poster Presentation**



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Sunday Morning – May 21, 2017

- 8:00 – 8:30 Registration & Breakfast
- 8:30 – 10:15 S3: Water Pollution and Remediation**
Session Chairs: HU, Xindi; WU, Xiaoqin & YANG, Xuejing
- 8:30 – 9:00 “Emerging Chemicals in Drinking Water and Their Health Risk” **(invited)**
HU, Jianying; Professor, College of Urban and Environmental Sciences, Peking University
- 9:00 – 9:15 “Drinking Water Contamination, Treatment, and Health in Rural China”
COHEN, Alasdair; Berkeley Water Center, UC Berkeley
- 9:15 – 9:30 “Exploring the Fate of N-nitrosamines in Municipal Wastewater Treatment Plants”
PU, Changcheng; Syracuse University
- 9:30 – 9:45 “A Computational Fluid Dynamics-based Sustainability Assessment Tool with an Application to Water Treatment Process Design”
ZHANG, Jie; University of South Florida
- 9:45 – 10:00 “Long-term Spatiotemporal Trends and Health Risk Assessment of Oyster Arsenic Level in Coastal Waters of Northern South China Sea”
WANG, Lifei; Gulf of Maine Research Institute, University of Toronto
- 10:00 – 10:15 “Water and Food Security in Africa”
JIANG, Qiang; Sichuan university, China
- 10:15 – 10:30 Coffee Break
- 10:30 – 12:30 S4: Environmental and Energy Policy**
Session Chairs: HE, Pan; LI, Mingquan; XU, Cheng & ZHANG, Da
- 10:30 – 11:00 CANCELLED
- 11:00 – 11:18 “High-resolution Mapping Vehicular Emissions in Megacities-based Intelligent Transportation System Data: A Case Study of Beijing, China”
ZHANG, Shaojun; Cornell University
- 11:18 – 11:36 “What is the Environmental Benefits of Ridesharing: A Case of in Beijing-Tianjin-Hebei Region, China”
MA, Ye; Cornell Institute for Chinese Economic Research
- 11:36 – 11:54 “Climate, Air Quality and Human Health Benefits of Various Solar Photovoltaic Development Scenarios in China in 2030”
YANG, Junnan; Princeton University
- 11:54 – 12:12 “Health Impacts of China’s INDC: A Win-win Action?”
HUI, Jingxuan; Tsinghua University
- 12: 12 – 12:30 “Employment Impacts of Renewable Energy Expansion in China: A CGE based Analysis”
MU, Yaqian; Tsinghua University



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Sunday Afternoon – May 21, 2017

- 12:30 – 13:30 Lunch & Networking
- 13:30 – 15:15 **Career Development Session (in Chinese)** *Session Chair: YANG, Xuejing*
- Shanghai Advanced Research Institute, Chinese Academy of Science (**GU, Qianrong; WANG, Maohua; WEI, Chong; WEI, Wei; ZHOU, Yanbo**)
 - School of Resources & Environmental Engineering, East China University of Science & Technology (**CAO, Na; CHENG, Li; XIU, Guangli**)
 - Department of Atmospheric Physics, School of Atmospheric Sciences, Nanjing University (**WANG, Minghuai**)
 - College of Engineering, Peking University (**ZHANG, Dongxiao**)
 - School of Environmental Science and Engineering, Sun Yat-Sen University (**HE, Zhili; WANG, Shizhong**)
- 15:15 – 15:45 **Career Development Panel Discussion** *Moderator: YANG, Xuejing*
- Panelists: JIANG, Yuhong; LI, Qilin; MI Baoxia; YI, Fanping; Representatives from Chinese Universities and Institutions**
- 15:45 – 16:00 Coffee Break
- 16:00 – 16:30 **Closing Remarks** *Moderator: DENG, Hang*
- 16:00 – 16:15 Announcement of the Host of CESF 2018
- 16:15 – 16:30 Concluding Remarks
- 16:30 **Adjourn**
- 16:30 – 17:30 **Affiliated Session**
- “Introduction to Agricultural Geography of the United States”
CHEN, Momei; College of Natural Resources, UC Berkeley



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Poster list

S1: Hydroclimate, Water Resources and Big Data

01 - "Hydrologic Cycle Characteristics of Land-Atmosphere System Based on GIS and RIEMS at Heihe River Basin, China"

ZOU, Songbin; *Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences*

02 - "A lightning data assimilation technique for improving WRF convective simulations"

HUANG, Xinzhou; *University of Maryland College Park*

03 - "In situ network design for satellite soil moisture calibration and validation using a hyper-resolution land surface model"

CAI, Xitian; *Lawrence Berkeley National Laboratory*

04 - "Modeling marine fish distributions across broad spatiotemporal extents by linking satellite remote sensing with fishery-dependent data"

WANG, Lifei; *Gulf of Maine Research Institute, University of Toronto*

S2: Water-Energy / Carbon-Water Nexus

05 - "Nitrogen removal through nitrous oxide production methanotrophic enrichments"

WANG, Zhiyue; *Stanford University*

06 - "The analysis of the battery electric vehicle's potentiality of environmental effect: A case study of Beijing from 2016 to 2020"

MA, Ye; *Beijing Institute of Technology*

S3: Water Pollution and Remediation

07 - "Sources of human exposure to poly- and perfluoroalkyl substances (PFASs)"

HU, Xindi; *Harvard University*

08 - "Novel biological nitrogen removal process from wastewater"

LI, Wei; *Cornell University*

09 - "Zeolite A Synthesized from Alkaline Assisted Pre-activated Halloysite for Efficient Heavy Metal Removal in Polluted River Water and Industrial Waste Water"

CHEN, Hong; *Department of Chemistry, Berkeley*

S4: Environmental and Energy Policy

10 - (WITHDRAWN)



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- 11 - "China's Carbon Emissions from energy combustion and utilization"
WEI, Chong; *Shanghai Advanced Research Institute, Chinese Academy of Sciences*
- 12 - "Science as Power: The Rise of Science-based Environmental Activism in China"
NI, Xiaole; *State University of New York, College of Environmental Science and Forestry*
- 13 - "What will happen to the Power Supply Structure and CO2 Emissions Reduction when TGC meets CET in the Electricity Market in China?"
FENG, Tiantian; *School of Humanities and Economic Management, China University of Geosciences, Beijing*
- 14 - "Do Air Pollution Alerts Influence Driving in China?"
XU, Cheng; *George Washington University*
- 15 - "Balancing Economy-Environment Trade-offs of Interregional Transfer of Polluting-intensive Industries in China"
ZHANG, Junfeng; *Beihang university*
- 16 - "Mapping Inter-industrial CO2 Flows within China"
BAI, Hongtao; *Stony Brook University*
- 17 - "Exploring regional unbalanced carbon tax comparing Liaoning province and rest of China"
LI, Zhaoling; *University of Tsukuba*
- 18 - "Environmental impact of shifting to healthy diet: Case of China"
HE, Pan; *University of Maryland*
- 19 - "Challenges and Opportunities for the Remediation Industry in China"
WANG, Li; *Greenment Environment*
- 20 - "Gentrification and Residential Sorting: Reasons for Displacement and Environmental Injustice in Los Angeles"
WANG, Wen; *Duke University*

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Speaker Introduction 报告人简介

S1: Hydroclimate, Water Resources and Big Data

Session Chairs: XU, Zexuan & ZHAN, Wang

- “How Controllable is Stratospheric Solar Radiation Management through SO₂ Injection?”
DAI, Zhen; Harvard University

Zhen Dai is a PhD student working with professor David Keith at the Harvard. She currently works on the experimental and modelling study of aerosol particle reactivity for solar radiation management. Prior to Harvard, Zhen earned an M.S. from UIUC in electrical engineering, and B.S./B.A. from Cornell University in Materials Science & Engineering and Chemistry.

代祯是哈佛大学的博士生，师从 David Keith 教授。她目前的研究方向包括太阳辐射管理的模拟和气溶胶化学性质的实验。代祯在伊利诺伊大学香槟分校电子工程系获得了硕士学位，并在康奈尔大学化学系和材料工程系获得了双学士学位。



- “Effects of Light-absorbing Aerosol Deposition on Snow Albedo over the Tibetan Plateau with Important Climatic Implications”
HE, Cenlin; University of California, Los Angeles

2008-2012: B.S. in Environmental Sciences and Applied Mathematics (double major), Peking Univ., China

2012-2013: M.S. in Atmospheric Sciences, UCLA, USA

2014-2017: Ph.D. in Atmospheric Sciences, UCLA, USA

Research Interests: Atmospheric Chemistry and Modeling, Aerosol climatic effects, interaction between air pollution and climate change
Current research focus: quantifying the interactions of light-absorbing aerosols and snow and their climatic effects over the snow-covered regions

2008-2012: 北京大学城市与环境学院就读本科，环境科学主专业，应用数学双学位

2012-2013: 加州大学洛杉矶分校就读大气科学硕士学位

2014-2017: 加州大学洛杉矶分校就读大气科学博士学位，将于 2017 年 6 月博士毕业

研究兴趣：大气化学模型，气溶胶的气候效应，空气污染与气候变化的相互作用

当前研究重心：理解吸光性气溶胶和积雪的相互作用及它们在积雪覆盖地区的气候效应



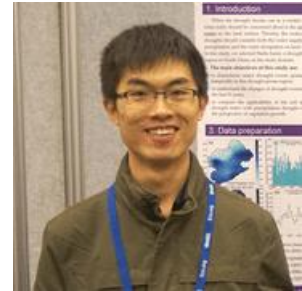
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- “Permafrost Degradation and its Eco-hydrological Impacts on the Northeastern Tibetan Plateau”
QIN, Yue; Tsinghua University, visiting at LBNL

Yue Qin is a fourth year PhD student from Tsinghua University. Currently he is a visiting student at LBNL. His research focuses on surface hydrology in a changing climate, including climatic drought, permafrost degradation, and their eco-hydrological effects. Yue received his bachelor degree from Tsinghua University in 2013.

秦越，清华大学水利系四年级博士生，现为 LBNL 访问学生。主要研究方向为流域水文学，包括寒区生态水文模型、干旱规律分析等。本科毕业于清华大学水利系(2013)。



- “Assessing Groundwater Salinization in Closed Hydrologic Basin”
Guo, Zhilin; University of California, Davis

Zhilin Guo is a postdoc in UC-Davis. Her research focuses on investigating long term impact of non-point source such as salts and nitrate in groundwater at regional scale. She got her bachelor degree in China and came to U.S for master degree in University of Florida and receive Ph.D degree in University of Arizona.

郭芷琳现于加州大学戴维斯分校进行博士后工作。她主要研究大尺度上非点源污染物对地下水中的长期影响。郭芷琳本科毕业于山西大学，在佛罗里达大学取得环境工程硕士，在亚利桑那大学取得环境科学和水文博士。



S2: Water-Energy / Carbon-Water Nexus **Session Chairs: DENG, Hang & LI, Xinyue**

- “Geochemical Reactions Alter Porosity and Permeability of Shale Matrixes during Hydraulic Fracturing”
LI, Qingyun; Stanford University

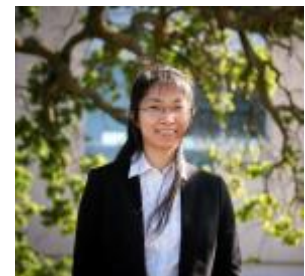
Obtained BS in Environmental Sciences from Peking University in 2011.
Obtained PhD in Energy, Environment and Chemical Engineering from Washington University in St. Louis (Not in Seattle. Not in Washington State. Not in Washington DC.)

Joined SLAC (Stanford Linear Accelerator Center) and Stanford University in 2016 as a postdoc.

Looking for faculty position in Environmental Engineering and Environmental Geochemistry.

Like but not excellent at Long Slow Distance (LSD) running, playing guzheng and piano, and cooking.

李青云，2011年毕业于北京大学，环境科学专业学士学位，2016年毕业于圣路易斯华盛顿大学（不在华盛顿州，不在华盛顿DC，不是分校），能源环境及化工专业博士学位。2016年加入斯坦



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福线性加速器中心和斯坦福大学项做博后。现正在环境工程及环境地球化学方向寻找教职。喜好但并不擅长于长距离龟速跑，古筝和钢琴，以及食物制作。

- “Large-scale Wind and Solar Farms in Sahara Increase Precipitation and Vegetation”
LI, Yan; University of Illinois at Urbana Champaign

Dr. Yan Li is currently a Postdoctoral Researcher at the University of Illinois at Urbana-Champaign (UIUC). He received his Ph.D degree from Peking University in 2015. His research focuses on the interaction of vegetation and climate (e.g, land cover change and forest cover change) from the perspectives of both remote sensing and climate models. His postdoc research at UIUC is about ecohydrology and crop modelling.

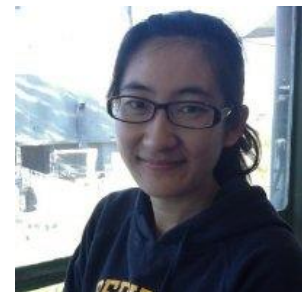
李琰博士目前是美国伊利诺伊大学香槟分校的博士后研究员，2015年在北京大学获得博士学位。他的研究兴趣是植被和气候间的相互作用（例如土地利用变化和森林覆盖变化），主要利用遥感资料分析和气候模式模拟。博士后期间的研究方向为生态水文和作物模型。



- “Novel Non-Proprietary Technologies to Remove Nutrients from Onsite Wastewater”
MAO, Xinwei; Stony Brook University

Xinwei Mao earned her Ph.D from University of California at Berkeley (2015), in Civil and Environmental Engineering. Before joining Civil Engineering department at Stony Brook University and the Center for Clean Water Technology (CCWT), she served as a postdoctoral researcher at UC Berkeley and an affiliated researcher in Earth Sciences Division of Lawrence Berkeley National Laboratory (2014-2015). Xinwei’s research interests lie in her passion of advancing and applying the knowledge of environmental microbiology to establish cost-effective and energy efficient wastewater treatment processes and bioremediation of recalcitrant contaminants in groundwater and soil matrix.

毛心慰博士现任职于纽约州立大学石溪分校土木工程系助理教授。2015年获得加州大学伯克利分校环境工程博士学位，研究方向为地下水有机污染物生物去除方法与数学模型。先后于加州伯克利土木工程系，劳伦斯国家实验室及纽约州清洁水能源中心从事博士后工作。目前的主要研究方向为新型分散式污水处理技术，地下水和污染土壤中难降解污染物的物理及生物修复技术。



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S3: Water Pollution and Remediation

Session Chairs: HU, Xindi; WU, Xiaoqin & YANG, Xuejing

- “Drinking Water Contamination, Treatment, and Health in Rural China”
COHEN, Alasdair; Berkeley Water Center, UC Berkeley

Dr. Alasdair Cohen, a Postdoctoral Scholar and Environmental Health Scientist at UC Berkeley, conducts research on drinking water supply, contamination, and treatment for the Berkeley/China-CDC Program for Water & Health, a collaboration he co-created in 2016. Cohen received a PhD in Environmental Science, Policy & Management and an MPH in Epidemiology from Berkeley, as well as an MSc in Water Science & Policy from Oxford. He has over 10 years of water and development related work and research experience, including work with United Nations agencies on indicator development and water resources management projects. Cohen lived in China for four years and has also worked in Albania, Bangladesh, India, Italy, and Kenya.



- “Exploring the Fate of N-nitrosamines in Municipal Wastewater Treatment Plants”
PU, Changcheng; Syracuse University

Changcheng Pu is a first-year PhD student in Civil & Environmental Engineering at Syracuse University. His research focuses on understanding the transport and fate of organic contaminants in natural and engineered aquatic systems, by combining controlled laboratory experiments with field based research. The long-term goal of his research is to promote the control of contaminants in aquatic environment. He received his Bachelor's degree from Tsinghua University and Master's degree from Stanford University. 蒲长城目前为雪城大学土木与环境工程系在读博士生，主要研究方向为有机微污染物在自然水体的迁移转化，饮用水处理及污水回用过程的副产物控制及城镇污水深度处理技术。蒲长城本科毕业于清华大学环境学院，之后在斯坦福大学土木与环境工程系取得硕士学位。

- “Water Treatment Process Design”
ZHANG, Jie; University of South Florida

Jie (Jay) Zhang is an engineer with expertise in modeling environmental flows in engineered/natural systems. He earned PhD degree in Civil Engineering at the University of South Florida, Tampa, FL. He is a pioneer in investigating water and wastewater treatment problems from the perspective of fluid mechanics; He combined computational fluid dynamics (CFD) with chemical reaction kinetics models and successfully applied it to evaluating technical performance and economic/environmental sustainability of water treatment facilities. He is interested in understanding complex flows in ecological systems as well. He is also a leader in promoting CFD in the community of civil and environmental engineers; He established an ASCE EWRI task committee on computational fluid dynamics and organized technical sessions and workshops on CFD at national/international conferences.

张杰博士（环境工程师）目前在南佛罗里达大学土木与环境工程系进行博士后研究工作。研究兴趣主要包括：1）从流体力学的角度研究水/污水处理问题。结合计算流体力学和化学反应动力模

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型创立模型框架，用于评估技术性能及经济和环境的可持续性指标；2) 自然系统复杂流动与人类活动的关系。如海洋流动对气候改变，石油泄漏，泥沙/污染物运输的影响。2015 年建立 ASCE EWRI 计算流体力学委员会并担任主席至今，多次在 ASCE 会议组织关于计算流体力学应用的技术报告会和研讨会。

- “Long-term Spatiotemporal Trends and Health Risk Assessment of Oyster Arsenic Level in Coastal Waters of Northern South China Sea”

WANG, Lifei; *Gulf of Maine Research Institute, University of Toronto*

Dr. Lifei Wang is currently a postdoctoral research associate at the Gulf of Maine Research Institute. She got her Ph.D. degree from the University of Toronto. Her research focuses on the species distribution modeling and time series modeling of aquatic species, heavy metal pollution in aquatic ecosystems, and aquatic invasive species ecology.

王力飞博士目前于缅因湾研究所从事博士后研究，博士毕业于加拿大多伦多大学。她的研究方向包括水生生物的时空分布建模和时间序列建模，水生生态系统的重金属污染，水生入侵生态学。

S4: Environmental and Energy Policy

Session Chairs: HE, Pan; LI, Mingquan; XU, Cheng & ZHANG, Da

- “High-resolution Mapping Vehicular Emissions in Megacities-based Intelligent Transportation System Data: A Case Study of Beijing, China”

ZHANG, Shaojun; *Cornell University*

Shaojun Zhang is the Aktinson Postdoctoral Research Fellow (2017-2019) at Cornell University. His research work will develop and pilot test data-driven systems to manage road emissions and accelerate the transition to electric vehicles. He obtained his bachelor (2009) and doctoral (2014) degrees in environmental engineering both from Tsinghua University, China. Before moving to Cornell University, he is a postdoctoral researcher in Ford Motor Company and University of Michigan, Ann Arbor (2015-2017). He has published more than 30 articles in peer-reviewed journals (e.g., *Atmos. Phys. Chem.*, *Environ. Sci. Techno.*, *Appl. Energy.*, and *Atmos. Environ.*), where he also serves as an active reviewer.

张少君目前是康奈尔大学阿特金森博士后研究员（2017-2019）。他的研究主要致力于开发基于先进测试和大数据技术的交通排放管理系统，并积极促进交通领域的电动化进程。他分别于2009年和2014年获得清华大学环境工程本科及博士学位。此前，他在福特汽车公司和密歇根大学从事博士后研究（2015-2017）。目前，他在环境能源领域期刊（如 *Atmos. Phys. Chem.*, *Environ. Sci. Techno.*, *Appl. Energy.*, and *Atmos. Environ.*）发表SCI论文超过30篇，并为这些期刊担任审稿人。



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- “What is the Environmental Benefits of Ridesharing: A Case of in Beijing-Tianjin-Hebei Region, China”
MA, Ye; Cornell Institute for Chinese Economic Research

Ye Ma is a visiting doctoral student of Charles H. Dyson School of Applied Economics and Management, Cornell University. She obtained B.S. degrees from China University of Geoscience (Beijing), then pursues her Ph.D. in Beijing institute of Technology. She also has been exchange student of Lomonosov Moscow State University, Chinese University of Hong Kong and National University of Singapore. Her research focuses on the environmental benefits of new energy vehicle and the policy of its market. She's also interested in the environmental benefits of ridesharing under the sharing economics.

马也系康奈尔大学应用经济与管理学院的联合培养博士生，于中国地质大学（北京）获得管理学学士学位，后在北京理工大学管理与经济学院硕博连读，曾为莫斯科大学、香港中文大学、新加坡国立大学访问学者。她的主要研究方向包括：新能源汽车市场及其环境效益、分享经济下的交通出行行为及环境效应等。



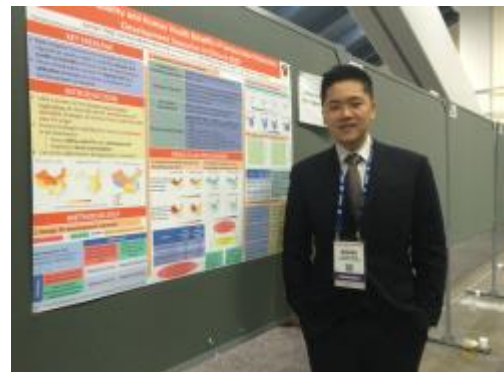
- “Climate, Air Quality and Human Health Benefits of Various Solar Photovoltaic Development Scenarios in China in 2030”
YANG, Junnan; Princeton University

Junnan is a PhD candidate in the Science, Technology and Environmental Policy (STEP) Program at Woodrow Wilson School of Public & International Affairs, Princeton University.

His research is focused on solar PV development policies, especially the air quality and climate co-benefits of solar PV installation in China using state-of-the-art atmospheric chemistry model. He is also interested in evaluating the impacts of high-penetration level of renewable energy in the power grids and comparing industrial policies and solar PV deployment in China, Germany, and the United States.

Before coming to Princeton, He got his Bachelor of Science degree in Environmental Science and Bachelor of Arts degree in Economics from Peking University, China.

杨骏楠现为普林斯顿大学伍德罗威尔逊公共与国际事务学院科学、技术与环境政策项目的博士候选人。他的主要研究方向为光伏的发展政策，尤其是利用大气化学模型研究中国光伏发展的气候与空气质量的协同效应。他同时还关注高比例可再生能源对于电网的影响以及中国、德国与美国之间的光伏发展和产业政策之间的横向对比。他于北京大学获得环境科学和经济学学士学位。





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- “Health Impacts of China’s INDC: A Win-win Action?”

HUI, Jingxuan; *Tsinghua University*

Jingxuan Hui is a PhD candidate at Department of Earth System Science, Tsinghua University. Her research focused on energy system modeling, sustainable development impacts of mitigation technologies and policies (including environment, health impacts, etc.).

惠婧璇是清华大学地球系统科学系的在读博士生。她的研究主要关注能源系统建模以及减缓技术和政策的可持续发展影响评估（如环境、健康等影响评估）。

- “Employment Impacts of Renewable Energy Expansion in China: A CGE based Analysis”

MU, Yaqian; *Tsinghua University*

Yaqian Mu is a PhD candidate from School of Environment of Tsinghua University. He is now visting in the Department of Agriculture and Resource Economics of UC, Berkeley. His research is focused on the development of computable general equilibrium (CGE) model and the comprehensive assessment of energy policies in China.

母亚乾，清华大学环境学院博士生，现于加州大学伯克利分校农业与资源经济学系访学，研究方向为可计算一般均衡模型的开发，中国能源政策的综合影响评估。



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邓航 Hang Deng

邓航博士是劳伦斯伯克利国家实验室地球与环境科学领域博士后。她的研究方向主要为地球化学过程对地下环境的影响，尤其是水岩反应对裂隙及多孔介质水力学特性的改造，及其与地下资源开采等人类活动的相互影响。邓航本科毕业于北京大学环境学院，之后在普林斯顿土木与环境工程系取得博士学位。



郭波 Bo Guo

郭波现为斯坦福大学能源与资源工程系博士后，他的研究方向主要为与能源和环境问题相关的多孔介质流体力学，具体工程应用包括页岩气开采、二氧化碳地下封存及土壤地下水污染修复。郭波于普林斯顿大学土木环境工程系和清华大学水利水电工程系分别取得博士（2016）和学士学位（2011）。



何盼 Pan He

本科、硕士均毕业于南京大学环境学院环境规划与管理方向，现于马里兰大学地理系攻读博士学位，师从 Giovanni Baiocchi 教授。主要研究兴趣包括饮食结构引起的环境与健康效应，消费者行为的环境足迹核算及其影响因素分析，空气污染对公众行为的影响，环境政策影响分析等。



胡歆笛 Cindy Hu

现就读于哈佛大学陈曾熙公共卫生学院环境健康系，博士四年级学生。目前的研究方向是持久性有机污染物的人体暴露模型和健康风险评估，其他研究兴趣包括气候变化、能源和环境政策领域的决策分析。本科毕业于北京大学城市与环境学院环境科学专业和生命科学学院生物科学专业。

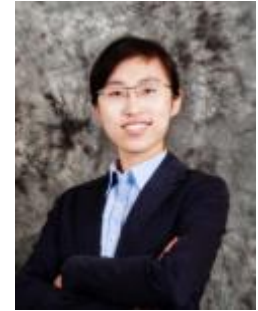


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霍金阁 Jingge Huo

霍金阁目前为佐治亚理工学院水资源系二年级在读博士生，亚特兰大中国学生学者联合会主席。她的主要研究方向为地下水污染物迁移，工程应用涉及污染场地修复，场地风险评估、管理等。霍金阁本科毕业于吉林大学环境工程系，之后在佐治亚理工环境工程系取得硕士学位。



李心悦 Xinyue Li

加州大学洛杉矶分校在读博士生，主要研究水资源与能源之间的相互影响。现就职于一家 NGO，研究边际碳排放和其在物联网中的应用。此前在世界资源研究所实习，参与建立全球发电厂数据库；也曾实习于斯德哥尔摩环境研究院，研究宁夏地区的水能关系。硕士毕业于瑞典乌普萨拉大学可持续发展，本科毕业于浙江大学控制科学与工程。



李明全 Mingquan Li

李明全博士目前在杜克大学尼古拉斯环境学院开展博士后研究工作，合作导师为 Dalia Patino-Echeverri。2015 年博士毕业于北京大学环境科学与工程学院，导师是王奇副教授。在北大期间主要研究领域包括：（1）环境效率与环境全要素生产率的方法研究与实证分析；（2）环境规制、产业转移及其环境影响的数理分析与实证研究。目前，主要开展中国电力需求、可再生能源发展与环境污染领域的相关研究。



刘竹 Zhu Liu

刘竹博士是加州理工学院/NASA 喷气推进实验室博士后，哈佛大学可持续发展项目 Research Associate。刘竹研究人类系统的碳排放及环境影响，尤其是国家和区域的碳排放核算。刘竹本科毕业于西北大学地质系，在中国科学院与英国剑桥大学攻读博士，并获得中国科学院博士学位。刘竹是中科院院长特别奖与百篇优秀博士论文获得者，在《自然》等学术杂志发表多篇论文。



刘栩 Xu Liu

现就职于美国劳伦斯伯克利国家实验室，从事节能减排政策研究工作，研究项目领域包括工业和建筑节能、城市低碳发展、以及节能减排的市场化机制



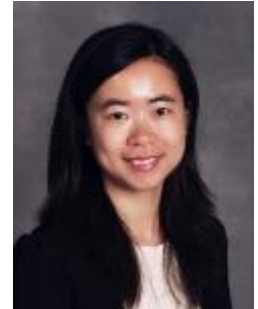
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等。获北京大学环境科学和经济学学士和耶鲁大学环境科学硕士学位。

巫晓琴 Xiaoqin Wu

巫晓琴博士目前为美国劳伦斯伯克利国家实验室项目科学家，研究方向包括环境有机污染物（主要为新型有机污染物）在水体及土壤中的环境行为及生态健康风险评估，环境有机碳与微生物之间的相互作用等。巫晓琴本科及硕士毕业于中山大学化学与化学工程学院，博士毕业于北京大学城市与环境学院，曾先后在加州大学河滨分校及劳伦斯伯克利国家实验室从事博士后研究。



肖健 Jian Xiao

肖健，南京农业大学与美国哥伦比亚大学联合培养博士，研究方向主要包括同步辐射，二次离子质谱等原位纳米技术微观尺度研究碳，氮在环境中的储存和迁移。



许澄 Cheng Xu

许澄，乔治华盛顿大学在读经济学博士。主修城市经济学、环境经济学，主要研究城市发展、城市环境污染和相关经济政策分析。当前研究课题涉及中国空气污染、交通污染、交通管理政策分析以及公共交通政策分析。



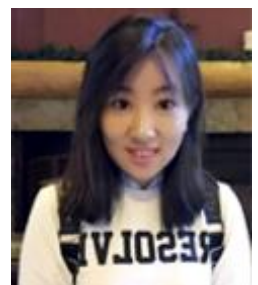
徐泽轩 Zexuan Xu

徐泽轩博士目前在劳伦斯伯克利国家实验室气候与生态部门从事博士后研究。他本科毕业于浙江大学地球科学系，之后在佛罗里达州立大学取得博士学位。徐泽轩的研究方向主要是全球及区域尺度的气候模型及水文数值模型，以及运用地下水数值模型模拟喀斯特含水层水资源，海水入侵等。



杨雪晶 Xuejing Yang

杨雪晶，博士，辽宁抚顺人，2008年华东理工大学化学工程与工艺专业本科毕业，2014年获华东理工大学化学工程博士学位，留校任教，2015年12月加入加州大学伯克利分校环境土木系，David Sedlak课题组，CERC fellow，2016年12月获批华东理工大学特聘副研究员。研究方向：活性氧物种化学调控与工程应用，研究兴趣涉及：环境催化、环境自由基化学、过程减排、水能源互馈等领域。发表SCI论文30余篇，包括J. Am. Chem. Soc., AIChE J.



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等，申请国家发明专利 11 项。目前，主持中央高校基本科研业务专项资金资助 2 项，作为研究骨干参与国家水体防治重大专项、国家 973 青年科学家专题、自然科学基金面上项目、上海市科委国际合作项目等

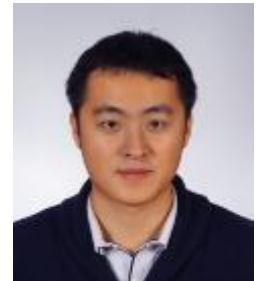
展望 Wang Zhan

展望博士本科毕业于北京大学地理信息系统专业，在普林斯顿土木与环境工程系取得博士学位。研究方向主要为陆面模式及遥感数据同化方案进行耦合；全球气候变化对自然灾害的影响，尤其是干旱，洪水等极端气候灾害。现就职于 One Concern 从事基于学习机器和人工智能的灾害预报模型研究，为管理以及防御自然灾害的决策提供科学依据。



张达 Da Zhang

张达博士现于麻省理工学院全球变化科学与政策项目从事博士后研究。他的研究兴趣包括能源环境政策的机制设计与企业行为，中国气候政策的经济分析及其分配效应等。张达于清华大学工业工程系获得本科学位，清华大学能源环境经济研究所获得博士学位。他曾在麻省理工学院全球变化科学与政策项目、瑞士苏黎世联邦高等理工学院、欧洲经济研究中心、国家发改委能源研究所、国家可再生能源中心等机构实习或访问研究。



张钰 Yu Zhang

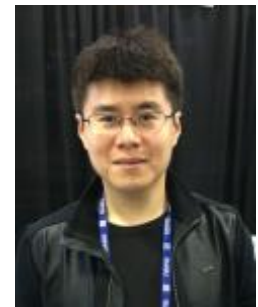
张钰现为加州大学伯克利分校五年级博士生。研究方向包括宏观生态学，理论生态学，基于最大化信息熵的生态建模，群落生态学，谱系进化与种间关系。本科毕业于北京大学城市与环境学院生态学系。



Advisory Committee 论坛顾问委员会

柴家珏 Jiajue Chai

在 2014 年从纽约州立大学环境科学与森林学院取得大气化学博士学位后，一直在布朗大学进行博士后研究工作。研究方向主要包括大气化学，燃烧化学及催化的理论与实验，量子化学计算及模型，气相分子光谱，同位素效应，同位素示踪大气含氮污染物的仪器研发，实地测量和模型预测。



方雪坤 Xuekun Fang

方雪坤，目前在麻省理工学院（MIT）做博士后。2014 年 6 月博士毕业于北京大学。研究领域是大气污染物和温室气体的排放清单、观测和数值反演等，包括仪器分析、模式模拟、统计编程、经济政策分析等。以第一或通讯作者已发表论文 10 篇，总和 IF=44。担任十多个国际期刊的审稿人，包括 Environmental Science & Technology 等



黄启洋 Qiyang Huang

清华大学与加州大学伯克利分校联合培养在读博士，耶鲁大学工程学硕士，伊利诺伊大学香槟分校工程学学士。本科获得最高荣誉毕业。现从事新材料在水处理方面的应用研究。他曾就职于美国能源部下属的爱达荷国家实验室，从事可再生生物能源研究。他是美国 Alpha Epsilon 农业和生物工程荣誉会员，美国农业生物工程师学会 (ASABE) 会员



宋晓鹏 Xiaopeng Song

宋晓鹏博士，现为马里兰大学地理科学系博士后。主要研究兴趣为基于卫星遥感的土地利用和土地覆盖变化监测，包括森林砍伐，农田扩张和城市扩张等主题。2008 年毕业于北京大学获地理信息科学和经济学双学位，2015 年获马里兰大学地理科学系博士学位。博士论文受 NASA 地球与空间科学奖学金资助。



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乐旭 Xu Yue

国家青年千人，中国科学院大气物理研究所研究员。2003 年获得北京大学大气科学系学士学位，2009 年获得中科院大气所博士学位，2010-2016 年期间，分别在哈佛大学和耶鲁大学从事博士后工作。主要研究方向是大气污染物传输及其对大气环境、气候变化和生态系统的影响。曾参与了留美学者环境论坛第一届（2014）和第二届（2015）的组织工作。

陈伟强 Weiqiang Chen

2004 年和 2010 年于清华大学分别获得学士和博士学位；2010 年 6 月至 2015 年 6 月在耶鲁大学产业生态学研究中心工作。2014 年共同发起了在哈佛大学举办的“2014 留美青年环境学者论坛”；2015 年负责组织了在耶鲁大学举办的“2015 留美环境学者论坛”。2015 年 7 月加入中国科学院城市环境研究所，组建了“资源代谢及其环境效应”研究组。



鲁玺 Xi Lu

清华大学环境学院 副教授，青年千人，博士生导师。主要从事可再生能源、气候变化与环境复杂系统建模与政策研究，包括风能与太阳能潜力评估技术，风、光、水变动互补性与电力系统并网研究，能源存储与可再生能源协同效应大数据分析，城市化与能源系统，温室气体与大气污染物排放研究。研究成果发表在 Science, PNAS, ES&T 等环境与能源领域重要期刊。荣获 2010 年国家优秀自费留学生奖学金。



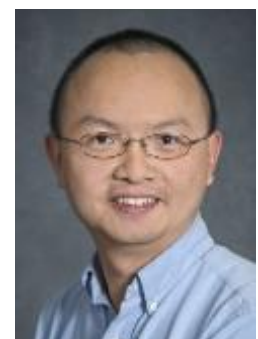
彭暉 Wei Peng

彭暉现为哈佛大学肯尼迪政府学院博士后研究员，主要研究方向为中国能源政策对空气质量、水资源利用与碳排放的影响，及实现协同治理的政策设计。她博士毕业于普林斯顿大学威尔逊公共国际事务学院，本科毕业于北京大学环境科学与工程学院。



何钢 Gang He

何钢现为纽约州立大学石溪分校技术与社会系助理教授，他也是劳伦斯伯克利国家实验室中国能源研究室的访问教授。何钢毕业于加州大学伯克利分校获博士学位。他主要从事能源与气候政策、能源经济与能源模型、低碳城市与低碳发展、中美能源与气候合作等方面的研究。研究组主页：



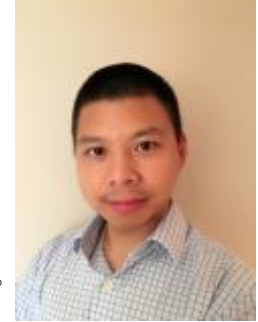
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www.ganghe.net

漆燚 Yi Qi

漆燚博士的研究关注全球变化下植被和生态系统的变化与监测。参与多项 NASA 课题包括西部火灾监控，植被化学成分探测等。研究方法包括高光谱，高分辨率定量遥感，地理信息大数据分析与计算。目前于布朗大学担任研究员，本科毕业于中国地质大学地理信息工程系，博士毕业于犹他大学地理系。

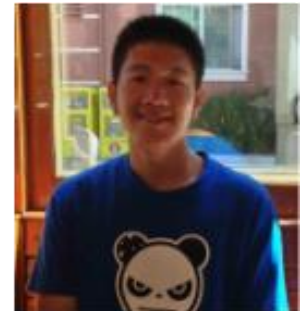


饶玉晗 Yuhan Rao

饶玉晗目前为马里兰大学地理系三年级博士研究生，研究方向包括基于卫星热红外遥感数据的地表温度反演与验证、多源数据融合、基于遥感数据的气候变化研究等。饶玉晗分别于 2011 年，2014 年于北京师范大学获得统计学学士学位以及地理信息工程硕士学位。

潘达 Da Pan

潘达是普林斯顿大学土木与环境工程系三年级博士生。目前主要研究方向为大气污染物观测、氮微量气体地气交换、以及氮循环。其他研究兴趣包括国际贸易及全球化对气候变化、能源和环境的影响。本科毕业于北京大学物理学院大气与海洋科学，其本科论文研究国际贸易对中国空气污染的影响发表在 PNAS，并获得 2014 年度 Cozzarelli 奖。



覃栋 Yue Qin

覃栋现就读于普林斯顿大学伍德威尔逊国际关系与公共政策学院，博士三年级学生，主修环境能源政策。目前的研究方向为中国的天然气使用对空气质量和气候变化的协同影响。本科毕业于北京师范大学环境学院主修环境工程专业，研究生毕业于北京大学环境科学与环境工程学院主修环境科学专业，研究中国的黑碳气溶胶排放清单编制。



王竞凡 Jingfan Wang

王竞凡，目前在斯坦福大学能源与资源工程系读博，研究天然气泄漏，并探索人工智能、深度学习在能源环境系统的应用，获得斯坦福大学最大奖学金—斯坦福大学交叉研究奖学金。在杂志 Energy, Environmental Science & Technology 发表多篇文章。硕士毕业于伯克利大学加州分校机械工程系，本科毕业于浙江大学能源与环境系统工程及其自动化，辅修浙江大学创业与创新管

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理强化班，荣获竺可桢学院荣誉学位。曾在特斯拉总部，发改委能源所，国家开发银行实习。目前担任斯坦福华人创业者协会主席，共同创立硅谷华人能源协会。

赵磊 Lei Zhao

赵磊博士现于普林斯顿大学环境科学技术与政策项目从事博士后研究。主要研究方向为地球表面与低层大气之间辐射，热量，动量及水汽相互交换传输的物理机制和原理。研究兴趣包括，陆面模式模拟，地气相互作用中热量、辐射及动量等交换的物理机制，边界层气象，卫星遥感的应用，气候模式模拟，数据同化及其应用等。他于2015年在耶鲁大学森林与环境科学学院取得博士学位，本科毕业于南京大学大气科学学院大气物理系。



张宏亮 Hongliang Zhang

张宏亮博士本科毕业于清华大学环境科学与工程系，博士就读于德州 A&M 大学，并在加州大学戴维斯从事博士后研究。目前于路易斯安那州立大学土木与环境工程系任助理教授。他的科研方向包括大气污染物的模拟与源解析，气溶胶和气象条件的相互关系，以及气候变化对未来空气质量的影响。



郑一琦 Yiqi Zheng

郑一琦，本科毕业于北京大学物理学院大气与海洋科学系，现为耶鲁大学地质与地球物理系在读博士生。研究方向包括大气化学与气候的相互作用，有机气溶胶化学及其气候效应，以及植被在地球系统中的作用

