



# 2024 Google Climate Action Research Awards Program (China)

## Award Recipients

董磊, 北京大学 / Lei DONG, Peking University  
*Climate Change on Long-term Urban Development*

高光 (PI)、李姜辉 (Co-PI)、刘凯琳 (Co-PI), 厦门大学 / Guang GAO (PI), Jianghui LI (Co-PI),  
Kailin LIU (Co-PI), Xiamen University  
*CO<sub>2</sub> Capture and Utilization by Seaweed Cultivation Integrated with Geological Storage*

关大博, 清华大学 / Dabo GUAN, Tsinghua University  
*Cost-benefit Analysis of Carbon Peak and Carbon Neutrality Technology Pathway in the Key Industrial Sectors*

姜源, 厦门大学 / Yuan JIANG, Xiamen University  
*Bioinspired Buoyant Materials for Sustained Alkalinity Release*

李纪, 上海交通大学 / Ji LI, Shanghai Jiao Tong University  
*Assessment the Potential of Large-scale Integrated Multispecies Seaweed Farming for Carbon Capture and Biomass Production*

李湉湉 (PI), 班婕 (Co-PI), 中国疾病预防控制中心 / Tiantian LI (PI), Jie BAN (Co-PI), Chinese Center for Disease Control and Prevention  
*Projection of Global Heat-related Mortality Burden and the Health Benefits of Heat-health Warning Intervention under a Changing Climate*

李婷婷, 中国科学院大气物理研究所 / Tingting LI, Institute of Atmospheric Physics, Chinese Academy of Sciences  
*Net Greenhouse Gases Emissions from Mangroves in China and their Climate Mitigation Effect during the Past 40 Years*

吴海明 (PI)、周重阳 (Co-PI), 山东大学 / Haiming WU (PI), Chongyang ZHOU (Co-PI), Shandong University  
*A Novel Technology for Reutilizing Wetland Biomass Waste and Carbon Dioxide to Improve Carbon Sequestration and Clean Fuel Production*

北京大学 / Peking University  
*Kilometer-resolution Synergistic Emission Inversion for Carbon Dioxide and Nitrogen Oxides Based on Satellite Measurements and Physics-constrained Artificial Intelligence*