



Huang Gang, male, Ph.D. in Science, is a specially appointed Core Researcher (Level 2) at the Chinese Academy of Sciences (CAS), Professor of Position at the University of Chinese Academy of Sciences (UCAS), Co-Head of the Artificial Intelligence Team at the State Key Laboratory of Numerical Modeling for Earth System and Applications, Director of the Institute of Atmospheric Physics Artificial Intelligence Research Center for Atmospheric Science (IAP/CAS), and Doctoral Supervisor. He is a recipient of the National Science Fund for Distinguished Young Scholars (2014) with an outstanding completion review, selected as a National Leading Talent in Scientific and Technological Innovation among Middle-aged and Young Researchers (2016), and recognized as a National Leading Talent under the Ten Thousand Talents Program (2017). He is also a recipient of the State Council Special Government Allowance. Dr. Huang serves as Vice Chair of the Academic Degree Committee and Member of the Academic Committee at the Institute of Atmospheric Physics, CAS. He is also an expert member of the CAS Scientists' Spirit Lecture Group. He studied under the renowned meteorologist Academician Ye Duzheng and obtained his Ph.D. from the Institute of Atmospheric Physics, CAS, in September 1999. He currently serves on the Dynamic Meteorology Committee of the Chinese Meteorological Society and the Wind and Ocean Energy Generation Committee of the Chinese Society for Electrical Engineering. He is an editorial board member for *The Innovation*, *The Innovation Geoscience*, *Research Data in Cold and Arid Regions*, and holds the position of Executive Editor for the *Journal of Atmospheric Sciences*. He is also an editorial board member of *Acta Meteorologica Sinica*, *Climatic and Environmental Research*, *Science Data in China*, and *Journal of Aerospace Technology and Engineering*. In addition, he serves on the editorial boards of several SCI-indexed journals including *Scientific Reports*, *PeerJ*, *Frontiers in Earth Science*, *Advances in Atmospheric Sciences*, *Spatial Information Research*, and *Journal of Marine Systems*, and is a guest editor for *Advances in Meteorology*, *Sustainability*, and *Atmosphere*. He is Editor-in-Chief of *Geosciences (Climate)*, and has served as a reviewer for 60 SCI-indexed journals including *Nature* sub-journals (e.g., *Nature Climate Change*, *Nature Communications*, *npj Climate and Atmospheric Science*, *Communications Earth & Environment*), *Science Advances*, and others such as *Science Bulletin*, *National Science Review*, *Journal of Climate*, and *Bulletin of the American Meteorological Society*. He is a member of CNC-WCRP (China National Committee for World Climate Research Programme), and holds adjunct professor positions at UCAS, Nanjing University of Information Science and Technology, Hohai University, Chengdu University of Information Technology, University of Science and Technology of China, Tianjin University, and serves as doctoral or master's thesis supervisor. He is also a guest lecturer for graduate courses at The Chinese University of

Hong Kong. Dr. Huang has received numerous awards, including: 2025 Qilin Science and Technology Award (First Place); Outstanding Achievement in Meteorological Science and Technology since the 13th Five-Year Plan by CMA (First Place); 2024 Phoenix Leading Talent of Beijing Chaoyang District; 2023 CMA Science and Technology Achievement Evaluation – Good Level (First Place); 2019 First Prize of Basic Research in Atmospheric Science awarded by the Chinese Meteorological Society (First Place); 2017 First Prize of Guangdong Provincial Science and Technology Award (Second Place); 2025 Gansu Provincial Natural Science First Prize (Third Place); "Xuedu Fengzheng" Outstanding Doctoral Dissertation and Research Paper Award; Tu Changwang Youth Science and Technology Award; National Outstanding Meteorological Science and Technology Worker; CAS "Zhu Liyuehua" Excellent Teacher Award (2012, 2020); CAS Outstanding Graduate Supervisor Awards (2012, 2013, 2018); 2023 College-Level Excellent Course (Lead Instructor); 2013 Zhao Jiuzhang Award for Outstanding Young/Middle-aged Scientists; 2014 Lu Jiayi Excellent Mentor Award, among many others. Ph.D. students under his supervision have won CAS Outstanding Doctoral Dissertation Awards in 2012, 2013, and 2018, as well as other youth awards. To date, he has published 324 research articles (including 236 SCI papers, 73 CSCD papers, and 15 book chapters), with a cumulative SCI impact factor of 1,536. Among these are 37 top-tier journal articles (impact factor >9), including: PNAS (1 paper), Nature Climate Change (3), Science Advances (2), Nature Geoscience (3), Nature Communications (5), Annual Review of Earth and Planetary Sciences (1), npj Climate and Atmospheric Science (8), etc. His publications have received over 12,266 SCI citations and 15,127 Google Scholar citations, with an h-index of 61. He has been listed among the World's Top 100,000 Scientists, named in Stanford University's "World's Top 2% Scientists 2020–2025" ranking, included in the list of "Top 1,000 Most Influential Scientists Globally in Climate Change Research," ranked in the Global Top 100,000 Scientists (2022–2025), recognized in Research.com's "Best Environmental Scientists in China (2023–2025)," and listed in the ESI global top 1% highly cited researchers in Earth Sciences. He owns 5 computer software copyrights (3 as first contributor) and 2 invention patents (1 as first inventor, 1 as second).

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Main research areas:

Climate dynamics, monsoon dynamics, air-sea interaction, global warming dynamics, numerical simulation, artificial intelligence in atmospheric science, climate change and health, climate resources, polar and mid-to-high latitude climate change, extreme climate events, etc.