

GCAM-China Community Guidelines

The GCAM-China Community (hereinafter referred to as “the Community”) is dedicated to fostering an inclusive environment that facilitates the exchange of knowledge, advances in scientific research, and the innovation of modeling techniques. These guidelines outline the Community’s goals, ethical principles, and organizational framework. By collectively orchestrating the development and maintenance of GCAM-China, we strive to transform it into a pivotal resource for academic research and policy formulation, accessible to both national and international researchers and stakeholders.

Section I: Vision and Mission

Vision: To cultivate a self-sustaining ecosystem for GCAM-China users, enabling the dissemination of knowledge, scientific progress, and technological breakthroughs.

Mission: To leverage communal efforts in the evolution and stewardship of GCAM-China, thereby establishing it as a key instrument for scholarly and policy-oriented investigations, and to foster scientific advancement.

Section II: Foundational Principles

Inclusivity: We invite contributions from scholars across all disciplines and all career stages to enrich discussions, spark innovative ideas, and foster diverse perspectives.

Transparency: We commit to a culture of openness and clarity, prioritizing code integrity and the replicability of research findings.

Scientific Integrity: We uphold the quality of our model through rigorous peer reviews, promoting the accuracy and scholarly merit of our research outputs.

Section III: Goals and Strategies

Community Support: We aim to synchronize the research interests and resources of community members, fostering mutual assistance and collectively enhancing the research endeavors and professional growth of our community, with a particular focus on supporting the career development of junior scholars.

Academic Collaboration: We engage in partnerships with both China-based and international modeling teams and specialists, maintain close coordination with the GCAM core developers, actively participate in multi-model comparative

analyses, and encourage academic exchanges and the sustained evolution of our model.

Policy oriented: Our model development is closely aligned with the needs of decision-supporting for Chinese policies, offering tangible scientific backing to decision-makers and bridging the gap between scientific exploration and policy formulation.

Section IV: Organizational Framework and Roles

Open-source Collaboration: We utilize GitHub as our primary platform for open-source collaboration.

Advisory Committee: This committee consists of esteemed experts and senior model developers who provide scientific oversight and strategic planning.

Model Development Committee: Tasked with the routine governance of core code, evaluation of new functionalities, and the facilitation of diverse training initiatives to ensure the model's stable functionality and scientific accuracy.

User Group: Formed voluntarily by junior researchers that are regular users of the model, this group fosters knowledge sharing in flexible formats, supported by the model development team.

Section V: Communication and Collaboration

Community Engagement: We employ open-access platforms such as GitHub and WeChat for technical discussions and collaborations, enabling members to conveniently share codes, discuss topics, and share collaborative opportunities.

Quarterly Newsletter: A newsletter is circulated every quarter to highlight recent advancements, research outcomes, and forthcoming activities, ensuring members stay informed and engaged.

Training Opportunities: We seek to organize various training sessions to enhance modeling and research skills of community members.

Annual Workshop: A yearly workshop is expected to hold to facilitate direct interactions, share the latest model updates, discuss future directions, and bolster collaborative opportunities.

Section VI: Engagement and Collaboration Opportunities

We welcome individuals, groups, and organizations interested in GCAM-China to join our community and engage with fellow members in a variety of collaborative efforts.

Contributions utilizing the community-developed model must adhere to academic integrity principles, duly acknowledging prior contributions (e.g., platform maintainers, developers of key functionalities).

For propositions concerning the development of new functional modules, it is advisable to proactively liaise with the Model Development Committee to coordinate community resources, leverage assistance, and prevent redundant efforts.

GCAM-China community member list

Advisory Committee (listed alphabetically based on last names)

Wenjing Cai	Tsinghua University
Ryna Cui	University of Maryland
Hancheng Dai	Peking University
Jae Edmonds	Pacific Northwest National Laboratory
Allen Fawcett	Pacific Northwest National Laboratory
Kuishuang Feng	University of Maryland
Nate Hultman	University of Maryland
Gokul Iyer	Pacific Northwest National Laboratory
Haewon McJecon	Korea Advanced Institute of Science and Technology
Kejun Jiang	National Development and Reform Commission
Jiashuo Li	Shandong University
Yu Liu	Peking University
Xi Lu	Tsinghua University
Pralit Patel	Pacific Northwest National Laboratory
Fei Teng	Tsinghua University
Dan Tong	Tsinghua University
Can Wang	Tsinghua University
Shuxiao Wang	Tsinghua University
Sha Yu	University of Maryland
Peng Wang	Chinese Academy of Science
Qiang Zhang	Tsinghua University

Hongbo Duan University of Chinese Academy of Science

Model Development Committee:

Yang Ou Peking University

Yang Liu Tsinghua University

Andy Miller University of Maryland

Jay Fuhrman Pacific Northwest National Laboratory

User Group :

Graduate students and postdocs currently using GCAM-China (about 30)