

Erhao Ge

✉ erhao.ge.20@ucl.ac.uk

Gender: Male Location: London, UK Nationality: Chinese

🌐 <https://erhaoge.github.io/geerhao/>



Personal Profile

I am an academic dedicated to exploring computational social science from an evolutionary anthropology perspective, with a focus on understanding the evolutionary mechanisms of cooperation and competition within families and social groups. My research investigates how cultural patterns adapt to specific ecological contexts to promote cooperative behavior. I employ a combination of economic game experiments, mathematical modeling, and empirical demographic data analysis (primarily using R) to study the evolutionary dynamics of social behavior. I am experienced in social network analysis, Bayesian modelling, and other related techniques. Through interdisciplinary research, I aim to deepen our understanding of the evolutionary processes underlying social cooperation and provide new insights into the relationship between cultural adaptation and the mechanisms shaping social behavior.

Education

• **03/2025 - 03/2026**

Honorary Research Fellow

University College London (UCL), UK

• **09/2020 - 02/2025**

PhD in Human Biology and Evolution

University College London (UCL), UK

Supervisor: Prof. Ruth Mace (FBA) & Dr. Mark Dyble

Thesis Title: The Behavioural Ecology of Costly Religious Practices

• **09/2017 - 06/2020**

Master's Degree in Human Behavioural Ecology

Lanzhou University, China

Supervisor: Prof. Ruth Mace (FBA)

Dissertation Title: Evolutionary Mechanism of Costly Behaviour in the Eastern Qinghai-Tibet Plateau

• **09/2013 - 06/2017**

Bachelor's Degree in Biotechnology

Lanzhou University, China

Teaching Experience

• **09/2024 - 12/2024**

Teaching Assistant

Anthropology Department, University College London (UCL), UK

Modules: ANTH0107/0114 Research Methods in Evolutionary Anthropology and Statistics for Social Research

Modules: ANTH0165 Evolutionary Medicine

Involvement: Lecture assistance, leading tutorial groups, marking, and assessment.

• **05/2024 - 06/2024**

Assessment Assistant

Anthropology Department, University College London (UCL), UK

Module: ANTH0044 Human Behavioural Ecology

Involvement: Marking and assessment.

• **12/2023**

Invited Guest Speaker

Masaryk University, Brno, Czech Republic

Involvement: Invited to deliver a speaker series talk at the LEVYNA Laboratory.

• **09/2023 - 06/2024**

Teaching Assistant

Anthropology Department, University College London (UCL), UK

Module: ANTH0008 Introduction to Biological Anthropology

Involvement: Organizing and leading tutorial groups, marking and assessment.

Academic Publications

- **Ge, E.**, Cairang, D., Mace, R. (2024). Religiosity and gender bias structure social networks. *Evolutionary Human Sciences*, 6, e23.
My role: Project conception, Data curation and analysis, Manuscript writing.
- **Ge, E. ***, Chen, Y. *, Wu, J., & Mace, R. (2019). Large-scale cooperation driven by reputation, not fear of divine punishment. *Royal Society Open Science*, 6, 190991.
My role: Project conception, Data curation and analysis, Manuscript writing.
- Cairang, D. *, **Ge, E. ***, Du, J., & Mace, R. (2023). Sex Differences in Costly Signaling in Rural Western China. *Evolution and Human Behavior*, 44(2): 80-87. **(Co-first Author)**
My role: Project conception, Data curation and analysis, Manuscript writing.
- Zhou, L. *, **Ge, E. ***, Micheletti, A.J., Chen, Y., Du, J., & Mace, R. (2022). Monks relax sibling competition over parental resources in Tibetan populations. *Behavioral Ecology*, 33, 1070-1079. **(Co-first Author)**
My role: Data curation and analysis, manuscript writing.
- Micheletti, A. J. *, **Ge, E. ***, Zhou, L. *, Chen, Y., Zhang, H., Du, J., et al. (2022). Religious celibacy brings inclusive fitness benefits. *Proceedings of the Royal Society B*, 289, 20220965. **(Co-first Author)**
My role: Data curation and analysis, manuscript co-writing.
- Chen, Y., **Ge, E.**, Zhou, L., Du, J., & Mace, R. (2023). Sex inequality driven by dispersal. *Current Biology*, 33(3), 464-473.
My role: Data collection.
- Chen, Y., **Ge, E.**, Zhou, L., Du, J., & Mace, R. (2024). Gender inequality in workloads explained by operational sex ratio. *iScience*, 27(6).
My role: Data collection.
- Micheletti, A. J., **Ge, E.**, Zhou, L., Chen, Y., Du, J., & Mace, R. (2023). Studying human culture with small

datasets and evolutionary models. *Proceedings of the Royal Society B*, 290(2001), 20230753.

My role: Data curation and analysis.

- Arnot, M., Brandl, E., Campbell, O. L. K., Chen, Y., Du, J., Dyble, M., Ge, E., ... & Zhang, H. (2020). How evolutionary behavioural sciences can help us understand behaviour in a pandemic. *Evolution, Medicine, and Public Health*, 2020(1), 264-278.

My role: Manuscript co-writing.

Academic Communication

- Invited Talk at 19th "Spring Sunlight Cup" China International Student Innovation and Entrepreneurship Conference, Beijing, China (2024)
- Poster at the European Human Behaviour and Evolution Association (EHBEA) Annual Conference, Montpellier, France (2024)
- Talk at the French Network for the Evolutionary Study of Humans (FRESH) Annual Conference, Paris, France (2023)
- Talk at the Human Behavior and Evolution Society (HBES) Annual Conference, Palm Springs, USA (2023)
- Talk at the European Human Behaviour and Evolution Association (EHBEA) Annual Conference, London, UK (2023)
- Poster at the European Human Behaviour and Evolution Association (EHBEA) Annual Conference, Online (2022)
- Talk at the International Society for Behavioral Ecology (ISBE) Annual Conference, Online (2022)
- Participant at the Institute for Advanced Study in Toulouse (IAST) Summer School, Online (2021)
- Poster at the Chinese Zoological Society Animal Behaviour Conference, Hainan, China (2019)
- Talk at the European Human Behaviour and Evolution Association (EHBEA) Annual Conference, Pécs, Hungary (2017)

Scholarships and Awards

- **NSF Funded Scholar (2023):** Selected for full funding by the National Science Foundation (NSF) through a global competitive process. Conducted research at Yale University, using the HRAF World Cultures database, the largest ethnographic database in the world, for cross-cultural analysis.
- **Chinese Government Award for Outstanding Non-Government-Funded PhD Students Abroad (2022):** A prestigious national award from the China Ministry of Education, recognizing exceptional research achievements by self-funded Chinese Ph.D. students at top international universities who are not funded by the Chinese government. Fewer than 500 PhD students globally receive this award each year, representing less than 1% of the total number of self-financed Chinese PhD students abroad.
- **European Research Council (ERC) Fully Funded PhD Scholarship (2020):** A fully funded PhD scholarship provided by the ERC (Grant No: 834597).
- **National Graduate Scholarship (2019):** Awarded for academic excellence during postgraduate studies in China.
- **Outstanding Academic Poster (2019):** Awarded for Best Academic Poster at the 2019 Chinese Zoological Society's Animal Behavior Subgroup Conference.

Academic Service

- Served as a peer reviewer for journals including *Trends in Cognitive Sciences*, *Evolution and Human Behavior*, and *Evolutionary Human Sciences*.
- Co-organiser, workshop titled: *Quantitative Comparative Anthropology: Methods and Applications*, 7–8 November 2024, University College London (UCL).
- Led a weekly reading and research group on Human Ecology and Evolution at UCL, facilitating discussions and fostering collaborative research for one year.