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EDUCATION

University of Oxford — Oxford, UK
DPhil in Zoology — Oct 2018 – Dec 2022
Supervisor: Owen Lewis

- Thesis title: "Experimental Community and Thermal Ecology of Rainforest *Drosophila* and Their Parasitoids" (examiners: Jake Alexander (ETH) and Ailsa McLean (Oxford)).
- Studying the biotic and abiotic determinants of species distribution and experimenting how species interactions influence responses of populations and communities to climate change.

Peking University — Beijing, China
BSc. in Biological Science (honoured) — Sep 2013 – Jul 2018

- GPA: 89/100; Rank: 5/123

University of California, Berkeley — Berkeley, USA
Visiting Student in Integrative Biology — Aug 2016 – Dec 2016

- Courses and Grades: Ecological Genetics: A; Evolution: A^+; Host-Pathogen Interaction: A^+

WORK EXPERIENCES

University of Oxford — Oxford, UK
Postdoctoral Research Assistant (postdoc) — 2023 – 2025
Grant title: The Ecological and Evolutionary Legacy of Extreme Climatic Events for Food Web Resilience
PIs: Owen Lewis (University of Oxford) & Jon Bridle (University College London)
Project Partners: Megan Higgie (James Cook University) & Jan Hrček (Czech Academy of Sciences)

- Initiated, designed, and executed experiments studying the food-web structures, trait evolution and community resilience in response to extreme climatic events. Lead the analyses and writing of the findings which will be published in two to four manuscripts.
- Coordinate international collaborations across four institutes and lead a lab team of more than ten research assistants and undergraduate students to deliver three major experiments in two years.

The Nature Conservancy (TNC) — China
Research Intern — Mar – Aug 2018 (Beijing)

- Reviewed literature and designed a health assessment framework for small river basins

Volunteer for the Yunnan snub-nosed monkey conservation project — Feb – Apr 2017 (Lijiang)

- Developed an R package to analyse wildlife monitoring data by the local petrol team in a convenient and standardized way.
- Designed and conducted an interview survey of local communities (Diqing Tibetan autonomous prefecture) to investigate the legacy of previous conservation actions. This work led to new ten-year conservation funding from Ant Forest by Alibaba to the interviewed site.

PUBLICATIONS

[1]. **Chen, J.**, & Lewis, O. T (2024). A cryptic host-parasitoid interaction reduces the impact of heatwaves on host populations. (*in submission*)
[2]. Bright, N. L., **Chen, J.**, & Terry, C. (2024). Transgenerational effects impact the vulnerability of a host-parasitoid system to rising temperatures. *bioRxiv*, 2024-08. (*in submission*)
[3]. Li, J., Smith, C., **Chen, J.**, & King, K. (2024). Warming during different life stages has distinct impacts on host resistance ecology and evolution. (*In revision*)

[4]. 刘田田, **陈金琳**, 陈飞, 高欢欢, 习新强. (2024). 两种果蝇蛹期寄生蜂的冷、热昏迷反应. ***昆虫学报***. (*in press*)
[5]. **Chen, J.**, & Lewis, O. T. (2024). Limits to species distributions on tropical mountains shift from high temperature to competition as elevation increases. ***Ecological Monographs***, *94*(1), e1597.
[6]. **Chen, J.**, & Lewis, O. T. (2023). Experimental heatwaves facilitate invasion and alter species interactions and composition in a tropical host-parasitoid community. ***Global Change Biology***, *29*(22), 6261-6275.
[7]. Terry, J. C. D.*, **Chen, J.*,** & Lewis, O. T. (2021). Natural enemies have inconsistent impacts on the coexistence of competing species. ***Journal of Animal Ecology****, 90*(10), 2277-2288. (*co-first author)
[8]. Yang, L., Zhang, B., Wang, X., Ren, Y., **Chen, J**., Zhang, C., ... & Luan, X. (2018). Gap analysis and implications for seasonal management on a local scale. ***PeerJ***, *6*, e5622.
[9]. **Chen, J.**, Wang, W., Zhao, J. & Yao, M. (2018). Simulation-based inference of dispersal patterns in an endangered primate using approximate Bayesian computation. ***Peking University Undergraduate Thesis***.

CONFERENCES

- Liverpool, British Ecology Society annual meeting 2024 2024
  (Talk: Trait evolution and ecological legacy in host-parasitoid community following a extreme heatwave event)
- Shenzhen, Departmental Seminar, School of Ecology, Sun Yat-Sen University 2024
  (Talk: The formation and impact of novel species interactions under climate change)
- Belfast, British Ecology Society annual meeting 2023 2023
  (Talk: Causes and future drivers of species turnover along elevational gradients)
- Biology Centre of the Czech Academy of Sciences, Kokomo departmental Seminar 2022
  (Talk: Causes and future drivers of species turnover along elevational gradients ---- insights from Australian tropical *Drosophila* and their parasitoids)
- Geneva, 13th International Congress of Ecology (Frontier in Ecology: Science & Society) 2022
  (Talk: heatwave and warming induce distinctive community responses through their interactions with a novel species)
- London Natural History Museum, The Explorer Programme Summer Social 2022
  (Talk: biological responses to climate change)
- Leipzig UFZ & iDiv, Frontiers in Experimental Research on Changing Climate 2022
  (Talk: heatwave and warming induce distinctive community responses through their interactions with a novel species)
- Liverpool, British Ecology Society annual meeting 2021 2021
  (Talk: parasitoid interaction history and food quality influence heatwave resistance of *Drosophila* population)
- Festival of Ecology (online), British Ecology Society annual meeting 2020 2020
  (Talk: high temperature structures tropical forest *Drosophila* communities)
- Birmingham, British Ecology Society annual meeting 2018 (attendee) 2018
- Duke Kunshan University, Conservation of China's Tropical Biodiversity (poster) 2016
- Peking University, 3rd Symposium of Undergraduate Honour Program of Biology (oral talk) 2015

TEACHING

- Co-supervisor, Master project in Biology (Natalie Bright) Oxford, 2023-2024
  (project: transgenerational effects and their impact on the persistence of a host-parasitoid)
- Supervisor, Undergraduate research projects in Zoology James Cook University, 2024
  (Valentino Pallini: investigating the evolution of competitive abilities following an extreme event)
  (Letti Lee: investigating the evolution of wing morphology following an extreme event)
- Co-supervisor, Master project in Biology (Nancie Bowley) Oxford, 2022-2023
  (project: apparent facilitation in host-parasitoid network)
- Co-supervisor, Master project in Biology (Eloise Newman) Oxford, 2021-2022

(thesis title: how does temperature influence the outcome of intrasexual contests between two co-existing species?)

- Demonstrator and assisting lecturer, Programming in R (refresher) course Oxford, 2022
- Lecturer, MBiol students journal club: analysing and criticising research articles Oxford, 2022
- Lecturer, Doctoral Training Centre statistics and data management course Oxford, 2021
- Demonstrator, Biology undergraduate course: Climate envelope model Oxford, 2021
- Co-supervisor, Undergraduate research project in Biology (Maryam Binti Mohd Hafiz) Oxford,2020
  (grant proposal title: how does different duration of heatwaves affect host-parasitoid interactions?)
- Co-supervisor, Undergraduate research project in Biology (Julia Cypar and Ellie Jarvis) Oxford,2019
  (thesis title: do fruit flies optimize their dietary choices?)
- Teaching assistant, Mathematical modelling in Biology (on edX) Peking University, 2016
- Teaching assistant, Genetics Peking University, 2016

AWARDS and GRANTS

- UK Natural Environment Research Council (NERC) standard grant (named postdoc) 2023-2025
- Biology Eurofins Foundation Award 2022
- Academic Support Grant, The Queen's College, University of Oxford 2020
- Sponsored place for the "Ecological Survey Techniques" Course, Oxford 2020
- Academic Support Grant, The Queen's College, University of Oxford 2018
- Chinese Government Scholarship, China Scholarship Council 2018-2022
- Honorary China Oxford Award, China Oxford Scholarship Fund 2018
- Excellent Undergraduate Student, Peking University 2018
- Jinlongyu Scholarship (rank 1st), Peking University 2016
- Yang Fuqing Academician Scholarship (rank 5th), Peking University 2015

PROFESSIONAL SERVICE

- Reviewed research articles for *Ecological Monographs*, *Biological Journal of the Linnean Society*, and *Journal of Medical Entomology*.
- *Biodiversity Science* (《生物多样性》) Junior Editors (2023-2025)

SKILLS

Quantitative Skills

- Proficient in conducting statistical analysis and mathematical modelling in R.
- Course project level in coding in MATLAB and C.
- Geographic Information System by ArcGIS or R.
- Causal Inference ("Advance Research Method" one-week course by Oxford spring school, 2022).
- Intermediate Statistics and Data Management (three-week course by Oxford DTP, 2020).
- Integral Projection Model ("Stage-based Demographic Modelling" one-week course by NERC advance training short course, 2019).

Fieldwork Skills

- Bird survey (fieldwork assistant).
- Camera trapping (research project).
- Invertebrate survey ("Field Techniques for Surveying Invertebrates" four-week part-time course by Oxford continuing education department, 2020).

Language Skills

- Proficient in Mandarin and English.

ADDITIONAL ACTIVITIES

Oxford University Volleyball Club (2018-2022): Women's 1st team member and the captain of 2020-2021
Oxford University Table Tennis Team (2020-2022): Women's 1st team member

Peking University Green Life Society (2013-2016): member and fieldtrip coordinator
Peking University Social Practice Team on Fishery Reform (2014 summer): interview investigation on fishery practice and reform in Fujian, China. The work was awarded the outstanding team among 2014 Beijing undergraduate social practice projects.