

## Yangkang Chen (陈昉康)

email: [chenyangkang24@outlook.com](mailto:chenyangkang24@outlook.com)

GitHub: <https://github.com/chenyangkang>

Website: <https://chenyangkang.github.io>

---

### EDUCATION

- PhD 2024-2029 **Doctor of Philosophy in Ecology, Evolution & Conservation Biology**  
(expected) University of Illinois Urbana-Champaign. **Advisor: Benjamin M. Van Doren**
- MS 2021-2024 **Master in Ecology, Institute of Zoology, Chinese Academy of Sciences.**  
Key Laboratory of Animal Ecology and Conservation Biology
- GPA: 3.82/4.0. **Advisor: Xiangjiang Zhan**
- Thesis: "Using citizen science big data of bird observation to study biodiversity spatiotemporal pattern and mechanism"
- MS 2021-2023 **Master of Applied Data Science, University of Michigan, Ann Arbor.**  
School of Information
- GPA: 4.0/4.0
- Leading Project: "Predicting and Clustering Bird Migration Patterns Across America continent"  
Leading Project: "Price Recommender Web Application for New Properties on Airbnb"
- BS 2017-2021 **Bachelor of Science, major in Ecology, Sichuan University, China.**  
School of Lifescience
- GPA: 3.86/4.0, ranked 1st in the major. **Advisor: Kangshan Mao**
- Thesis: "The Revelation of Genomic Breed Composition Using Target Sequence Capture and SNPs: a case of *Taxodium*"
- 

### AWARDS & SCHOLARSHIPS

- 2024 Illinois Distinguished Fellowship, University of Illinois Urbana-Champaign
- 2024 Excellent Student of University of Chinese Academy of Sciences
- 2021 Excellent Graduate of Sichuan University (*summa cum laude*)
- 2020 Special Scholarship of College of Life Sciences, Sichuan University
- 2020 Good Doctor Scholarship, College of Life Sciences, Sichuan University
- 2019 National Scholarship, Ministry of Education of the People's Republic of China
- 2019 Excellent Student of Sichuan University
- 2018 Excellent Student of Sichuan University
- 

### PUBLICATIONS

- Chen, Y.**, Gu, Z., & Zhan, X., Tracking Temperature over Green-up: Sensitivity Discrepancy Between Observable and Fitness-Decisive Environments in Migratory Birds (under review).
- Han, Z.#, **Chen, Y.#**, Dai, X., Yu, C., Cheng, J., Li, J., & Mao, K. (2024) The Revelation of Genomic Breed Composition Using Target Capture Sequencing: a case of *Taxodium* (accepted).
- Chen, Y.**, Gu, Z. & Zhan, X. (2024). stemflow: A Python Package for Adaptive Spatio-Temporal Exploratory Model. *Journal of Open Source Software*, 9(94), 6158.

2. Shao, Z., Hou, X., **Chen, Y.**, Lin, Z., & Zhan, X. (2023). RNA sampling time on postmortem avian carcasses in the wild. *Wildlife Biology*, e01157.
1. **Chen, Y.**, Wang, Y., Li, J., Wang, W., Feng, D., & Mao, K. (2021). Principles, error sources and application suggestions of prevailing molecular dating methods. *Biodiversity Science*, 29(5), 629.

---

#### PROJECTS & TOOLS

- 2023 stemflow: A package for Adaptive Spatio-Temporal Exploratory Model (AdaSTEM) in python  
GitHub repository: <https://github.com/chenyangkang/stemflow>
- 2022 MADS Milestone project: Predicting and Clustering Bird Migration Patterns Across American continent. GitHub repository: [https://github.com/chenyangkang/MADS\\_Milestone2\\_Bird\\_Migration](https://github.com/chenyangkang/MADS_Milestone2_Bird_Migration)
- 2023 MADS Capstone project: Price Recommender Web Application for New Properties on Airbnb. GitHub repository: [https://github.com/foye501/Capstone\\_GMT89](https://github.com/foye501/Capstone_GMT89)
- 2023 Fasta2Codeml: A codeml pipeline wrapper for easier natural selection analysis.  
GitHub repository: <https://github.com/chenyangkang/Fasta2Codeml>
- 2023 PooledPSMC: Auto-PSMC with individual pooling method.  
GitHub repository: <https://github.com/chenyangkang/PooledPSMC>

---

#### FIELD WORK

- |              |   |
|--------------|---|
| 2021 Feb     | Saker Falcon Breeding Ecology Research, Qinghai, China.                           |
| 2020 Jul     | Summer Community Survey of Lepidoptera in Lixian County, Sichuan, China.          |
| 2020 May     | Bird Community Survey: 10 County in Western Sichuan Province, China.              |
| 2019 Oct     | Insect Community Survey in Pingwu County, Sichuan, China.                         |
| 2019 Jun     | Rodent Community Survey in Chengdu, Sichuan, China.                               |
| 2019 Jun-Jul | Field Research for Ecology Major [ <b>Team Leading</b> ]. Leshan, Sichuan, China. |

---

#### LANGUAGES

Python, R, Shell, English, Chinese, Japanese