

Quandong Pan

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“EMBRACE COMPLEXITY”

“There is no flood in a single raindrop, no financial crash in a single dollar, and no love in a single carbon atom. Yet, when combined under certain conditions, these simple elements create phenomena far greater and more complex than their individual parts.” — The Science of Complexity

FIELDS OF INTEREST:

- Systems Biology
- Computational Biology
- Evolutionary biology
- Genetic engineering
- Regeneration
- Complex Systems Modeling
- Network Science
- Collective Intelligence
- Evolutionary Game Theory
- Non-linear Dynamics

EDUCATION

Bachelor of Science – Major: Life Sciences

University of Freiburg

Oct 2022 — Present

<https://uni-freiburg.de/ucf/>

WORK EXPERIENCE

RESEARCH INTERNSHIP

University Hospital Freiburg

[03/04/2024 – 30/04/2024]

The lab focuses on elucidating the epigenetic mechanisms of caste transition and reversion in *Harpegnathos saltator* ant:

- My role was primarily focused on conducting behavioral analysis of the *Harpegnathos saltator* ant colony during its transition phase induced by colony separation.
- Other duties include ant colony maintenance, participating in weekly journal clubs etc.

RESEARCH ASSISTANT

Human Movement and Motor Rehabilitation Laboratory

International Institute of Child Study, Zhejiang Normal University

[12/10/2021 – 02/12/2022]

- The lab focuses on the behavioral correlates with neural mechanisms in the human brain.
- I was trained on operating controlled EEG experiments on adult college volunteers, supervising them during the task of character recognition, conducting interviews and gathering information.

CONFERENCES

- Life Sciences Annual Meeting 2024 in Switzerland
 - [13/02/2024 – 15/02/2024] University of Lausanne (UNIL - Amphimax)
 - • Bioinformatics, Biophysics, Cardiovascular Biology & Physiology
 - • Experimental Pharmacology, Ion Channels and Membrane Transporters Microscopy
 - • Molecular and Cellular Biosciences, Proteomics and Systems Biology
 - Link: <https://annual-meeting.ls2.ch/2024/program>
- SY-Stem Cell Conference 2024 in Vienna
 - [13/03/2024 – 15/03/2024] Vienna, Austria
 - • Early Embryogenesis
 - • Neural lineage specification
 - • Nervous Systems Development
 - • Brain Disease, Regeneration and Novel Technologies
 - Link: <https://www.oew.ac.at/imba/seminars-events/past-events/sy-stem-2024>
- Interdisciplinary College 2024 in Germany
 - Computational Neuroscience, Linear Algebra, Machine Learning • Game theory, Theoretical Biology and Complex Dynamical Systems Simulation
 - Link: <https://interdisciplinary-college.org/#content> :::

SKILLS

- Programming Language: R Language (Intermediate), MATLAB and Python (Beginner)
- Software and Platform: R Studio, MATLAB, Github

LANGUAGE PROFICIENCY

- Chinese (Mother Tongue)
- English
 - IELTS
 - (Overall 7.0, Listening 7.0, Reading 7.5, Speaking, 7.5, Writing 6.5)

- PTE Academic

- (Overall 86, Listening 80, Reading 90, Speaking, 72, Writing 90)

- German B2