

Kuan-Ling Liu

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RESEARCH INTERESTS

Urban entomology; ant biodiversity; population genetics; invasive ant; molecular ecology

EDUCATION

- | | |
|--------------------------|--|
| 2021-08 – present | PhD Student in Entomology
Texas A&M University, Texas, US |
| 2018-09 – 2020-06 | Master of Science in Entomology
National Chung Hsing University, Taichung, Taiwan
Thesis: <i>Population structure and colony organization of the invasive big-headed ant (Pheidole megacephala) in Taiwan</i>
Thesis advisor: Kok-Boon Neoh, Ph.D., Chin-Cheng Yang, Ph.D. |
| 2014-09 – 2018-06 | Bachelor of Science in Entomology
National Chung Hsing University, Taichung, Taiwan |

EXPERIENCES

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|--------------------------|---|
| 2020-03 – 2020-06 | Teaching Assistant- General Entomology
Assist students in insect dissection |
| 2018-09 – 2019-01 | Teaching Assistant- Urban Entomology
Urban pest specimen preparation |
| 2018-09 – 2018-09 | Emcee of the 3rd Asia Research Node Symposium: Humanosphere Science Present and Future of Humanosphere Science
Organized by Kyoto University and National Chung Hsing University |
| 2018-01 – 2018-06 | Student Exchange Program: Swedish University of Agricultural Science, Sweden
Majoring in Ecology |

RESEARCH EXPERIENCES

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|--------------------------|--|
| 2016-07 – 2021-08 | Research Assistant in Insect Ecology and Pest Management Laboratory
Focus on two projects supported by MOST, Taiwan: <ol style="list-style-type: none">Using landscape and species traits levels to unravel the ant assemblages in urban ecosystem in TaiwanUsing ecological and genetic approaches to unravel local urban adaption and invasiveness of longtime established yet neglected African big-headed ant |
| 2019-10 – 2019-11 | Internship in Laboratory of Pestology, Research Institute for Sustainable |
| 2019-02 – 2019-03 | Humanosphere, Kyoto University |

Research on morphological differences and migration pattern of *Pheidole megacephala*

PRESENTATIONS

- 2019** **The 2nd Multi-Institutional Invasive Ant Management Intervention (MIAMI) Consortium Meeting**
Organized by Research Institute for Sustainable Humanosphere, Kyoto University, Japan, 24th October, 2019
-Oral presentation- Effect of park size, peri-urban forest spillover, and environmental filtering on diversity, structure, and morphology of ant assemblages in urban park
- 2018** **Biological Sciences Graduate 23rd Congress**
Organized by Faculty of Science, Chulalongkorn University, Thailand. 18th-20th December, 2018
-Oral presentation- The effects of habitat complexity and forest boundary spillover on diversity, structure, and ant assemblages in urban greenery

AWARDS

- 2020** **Chia Mei Food Industrial Corporation**
Elite Scholarship
- 2020** **Alumni center, National Chung-Hsing University**
Jian-cheng Science, Technology, Engineering and Mathematics Scholarship
- 2019** **National Chung-Hsing University**
Higher Education Sprout Project Scholarship

SKILLS

- Microsatellite and phylogenetic analysis.
- Operating Scanning Electron Microscope.

PUBLICATION

1. **Kuan-Ling Liu**, Ming-Xiao Peng, Yuan-Chen Hung, Kok-Boon Neoh. (2019). Effects of park size, forest boundary spillover and environmental filtering on diversity, structure and morphology of ant assemblages in urban greenery. *Urban Ecosystems*: <https://doi.org/10.1007/s11252-019-00851-z>
2. Ming-Hsiao Peng, Yuan-Chen Hung, **Kuan-Ling Liu**, Kok-Boon Neoh. (2020) Landscape configuration, habitat complexity, and prey–predator numerical responses shape arthropod assemblage in urban parks. *Scientific Reports*: <https://doi.org/10.1038/s41598-020-73121-0>

PROFESSIONAL ORGANIZATIONS

- Taiwan Entomological Society: Member (2014 – present)
- NCHU Student Government: Member (2014 – 2015)

REFEREE

Kok-Boon Neoh, Ph.D.

Position: Associate Professor, Department of Entomology, National Chung Hsing University

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Ching-Cheng Scotty Yang, Ph.D.

Position: Assistant Professor, Department of Entomology, Virginia Polytechnic Institute and State University

Email: scottysthemanager33@gmail.com

Mei-Er Chen, Ph.D.

Position: Associate Professor, Department of Entomology, National Chung Hsing University

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