YU-PEI TSENG

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EDUCATIONAL QUALIFICATIONS AND ACADEMIC AWARDS

09/2020 – 06/2022 **Master of Science** (GPA: 4.19/ 4.30), **Institute of Ecology and Evolutionary Biology (M.S.), National Taiwan University, Taipei, Taiwan**
Thesis title: "*Landscape effects on local species richness of woody specialists in Subtropical Montane Cloud Forest of Taiwan*" (6,394 words)
Advisor: Dr. David Zelený

01/2020 – 05/2020 **Exchange student, Department of Biology, University of Oulu, Finland**

09/2016 – 06/2020 **Bachelor of Science** (GPA: 4.09/ 4.30), **Life Sciences, National Chung Hsing University, Taichung, Taiwan**
Academic Excellence Award (2017, 2018 & 2019)
Dean's Award (2017 & 2018)

EMPLOYMENT HISTORY

2022 - present **Theoretical Ecology Lab (Supervisor: Dr. Po-Ju, Ke)**
Research Assistant

- Involved in the project "*The temporal decay trajectory of plant-soil microbe interactions and its effects on plant community structure*", and responsible for DNA extraction, library preparation, and bioinformatics analysis of next-generation sequencing as well as greenhouse experiment.
- Designed a new project investigating the soil microbe community of bird's nest fern (*Asplenium nidus*) to understand how the microbe community change along different ages of the host (bird nest's fern). Responsible for field sample collection, DNA extraction, library preparation, and bioinformatics analysis of next-generation sequencing as well as data analysis.
- Built a theoretical model to investigate how host-microbiome associations differ from classic metacommunity systems due to host behavior.

RESEARCH EXPERIENCE

2020 - 2022 **Vegetation Ecology Lab (Supervisor: Dr. David Zelený)**
Master Student

- Investigated how the landscape affects the local species richness of woody specialists in the subtropical montane cloud forest of Taiwan.
- Attained programming skills in geographic information systems (GIS).
- Understanded theory about numerical methods in community ecology and

programming skills.
- Acquired fieldwork techniques of vegetation survey.
- Obtained knowledge of plant functional traits and experienced in empirical traits measurements and analysis.

2017 - 2020 **Phytobacteriology and Microbial Ecology Lab (Supervisor: Dr. Chia-Ching Chu)**

Bachelor Direct Study

- Proposed and implemented an undergraduate research project (supported by the National Science and Technology Council) about an investigation of the gut bacterial community in the lychee stinkbug (*Tessaratoma papillosa*) and understanded how the gut bacterial community affects host fitness.
- Acquired basic knowledge about numerical methods in community ecology and basic programming skills

RESEARCH GRANTS AND RELEVANT AWARDS

2021 Young Scientist Poster Presentation Award, Second Prize
63rd International Symposium of the International Association for Vegetation Science

2019 – 2020 "*Investigation on the gut bacterial community of the lychee stinkbug (Tessaratoma papillosa) and its effect on host fitness*" (project number: 108-2813-C-005-085-B), Undergraduate research fellowship, National Science and Technology Council, Taiwan ($ 1,560)

2018 Best Presentation Award
9th International Conference of Clinical Plant Science

OTHER RESEARCH EXPERIENCE

08/2018 **Pasoh Forest Reserve, Malaysia**

- Field survey and data analysis about the project relevant to seedling establisment, wild boar population monitoring, relationship between tree crown and buttress, termite mound distribution, and seed dispersal.

07/2017 **Dr. Cecilia Koo Botanic Conservation Center, Taiwan**

Internship

- Attained knowledge and techniques of ex-situ conservation of tropical plants.

RESEARCH OUTPUT

Conference **Y.-P. Tseng**, D. Zelený. Do subtropical montane cloud forests in Taiwan act as insular systems for woody species. 63rd International Biogeography Society 10th

Biennial Conference. Jun. 2-6, 2022. Vancouver, Canada [Virtual talk].

Y.-P. Tseng, D. Zelený. Do subtropical montane cloud forests in Taiwan act as insular systems for woody species. 63rd International Symposium of the International Association for Vegetation Science. Sep. 20-23, 2021. Virtual event [Poster].

Y.-P. Tseng, C.-J. Han, and C.-C. Chu. Investigation of the gut bacterial community in the lychee stinkbug (*Tessaratoma papillosa*). 9th International Conference of Clinical Plant Science. Dec. 1, 2018. Taichung, Taiwan [Poster].

TEACHING EXPERIENCE AND RELEVANT AWARDS

2022	Excellent Teaching Assistant Award
02/2022 – 06/2022	General Botany Lab
02/2021 – 06/2021	
09/2020 – 01/2021	
09/2021 – 01/2022	Introduction to R for Ecologists

LEADERSHIP EXPERIENCE

2021 - present	**The Student Association of the Institute of Ecology and Evolutionary Biology, National Taiwan University** *Vice director*
2018 - 2019	**Life Science Exhibition, National Chung Hsing University** *Chief Executive Officer*
2017 - 2018	**The Student Association of the Department of Life Science, National Chung Hsing University** *Executive Secretary*