YU-PEI TSENG

PERSONAL DETAILS

Full name	Yu-Pei Tseng
Contact details	+886-3366-2467 r09b44009@ntu.edu.tw No. 1, Sec. 4, Roosevelt Rd., Taipei 10617, Taiwan
Nationality	Taiwan (R.O.C.)
Languages spoken and proficiency level for each	Mandarin (native) English (waiting for the TOEFL score)

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)

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

None to date

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.

OTHER 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

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

- Field survey and data analysis about the project relevant to seedling establishment, 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].

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