

Yu-Ting Chu

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EDUCATION

Purdue University Doctor of Philosophy in Forestry and Natural Resources	Indiana, United States 12/2021
National Taiwan Ocean University (NTOU) Master of Science in Aquaculture	Keelung City, Taiwan 06/2014
Bachelor of Science in Aquaculture	06/2012

CERTIFICATE

ISO/IEC 17025 Certificate (QC-10-17-0008-TW): **Laboratory Management Systems – Awareness Training**, Oct. 2011

RESEARCH EXPERIENCE

Research Assistant Purdue University <ul style="list-style-type: none">• Research project<ul style="list-style-type: none">• Evaluation of Pacific whiteleg shrimp and three halophytic plants in marine aquaponic systems under three salinities• Investigation of stocking density ratios of shrimp to plants and two C/N ratios in marine aquaponics• Effect of different protein levels in the shrimp feed on water quality and the growth performance of Pacific whiteleg shrimp and three halophytic plants in marine aquaponics• Effect of pH and molasses supplement on the performance of marine and freshwater aquaponics	Indiana, United States 01/2018 – Present
Researcher Grobest Holdings Limited <ul style="list-style-type: none">• Aquaculture research institute<ul style="list-style-type: none">• Oversaw cultivation and care of shrimp and various fish culture• Conducted feed nutrient research for shrimp and various fish• Monitored and managed water quality• Processed clearing and staining fish	Taoyuan City, Taiwan 08/2014 – 03/2017
Research Assistant National Taiwan Ocean University <ul style="list-style-type: none">• Research project<ul style="list-style-type: none">• Effects of different probiotics on water qualities and growth in close culture system of <i>Litopenaeus vannamei</i>	Keelung City, Taiwan 09/2012 – 06/2014

GRANT WRITING EXPERIENCE

Illinois-Indiana Sea Grant <ul style="list-style-type: none">• Marine aquaponics: determining the optimal ratio of shrimp to plant crops• The development of marine aquaponics – a sustainable and potential food production in the near future – In Review	2018 2021
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TEACHING EXPERIENCE

- Teaching Assistant | Purdue University** Indiana, United States
• Environmental Science and Conservation (FNR 12500) 01/2019 – 01/2021
- Guest Lecture | Purdue University** Indiana, United States
• FNR 23000 Worlds Forest and Society – Consumptive use of aquatic resources 10/2019
• FNR 31300 Aquaponics – Marine aquaponics 09/2020
- Teaching Assistant | National Taiwan Ocean University** Keelung City, Taiwan
• Aquaculture Lab 09/2012– 06/2013
• Aquaculture Lab – Chief assistant 09/2013– 06/2014

TRAINING EXPERIENCE

- General Manager Office | Grobest Holdings Limited** Taoyuan City, Taiwan
• Project Specialist 04/2017 – 01/2018
• Trained new employees to raise shrimp
• Oversaw cultivation and cared of white shrimp (*Litopenaeus vannamei*) culture
• Monitored and managed water quality
• In charge of administrative affairs
- Aquatic Animal Center | National Taiwan Ocean University** Keelung City, Taiwan
• Intern Trainer 09/2010– 05/2014
• Oversaw white shrimp culture and probiotics cultivation
• Care of ornamental species
• Taught and guided sophomore interns

PUBLICATIONS

- **Chu, Y.-T.**, Brown, P.B., 2021. Evaluation of Pacific whiteleg shrimp and three halophytic plants in marine aquaponic systems under three salinities. *Sustainability* 13, 269. <https://doi.org/10.3390/su13010269>
- **Chu, Yu-Ting.**, 2014. Effects of Different Probiotics on Water Qualities and Growth in Close Culture System of *Litopenaeus vannamei*, 51 pages, National Taiwan Ocean University.

ORAL PRESENTATION

- **Chu, Y.-T.**, Brown, P.B., 2021. Evaluation of Pacific whiteleg shrimp and three halophytic plants in marine aquaponic systems under three salinities. Aquaculture America, San Antonio, Texas, August 14, 2021.

POSTER PRESENTATION

- **Chu, Y.-T.**, Brown, P.B., 2021. Evaluation of Pacific whiteleg shrimp and three halophytic plants in marine aquaponic systems under three salinities. Department of Forestry and Natural Resources Annual Poster Competition, West Lafayette, Indiana, April 9, 2021.
- **Yu-Ting Chu** and Paul Brown. Potential Crops for Marine Aquaponics. Indiana Horticultural Conference & Expo, Indianapolis, Indiana, February 12, 2020.
- **Yu-Ting Chu** and Paul Brown. Marine Aquaponics. Plant Science Networking, West Lafayette, Indiana, January 11, 2019.

PROFESSIONAL MEMBERSHIP

World Aquaculture Society

2018 to Present

EXTENSION AND OUTREACH

Engage Nature- Junior Nature Club Meetings

Indiana, United States

- Introducing Aquaponics

08/2019