

PO-AN CHEN

CURRICULUM VITAE

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EDUCATION

University of Florida , Gainesville, FL Ph.D., Interdisciplinary Ecology	2021–Present
National Chung Hsing University , Taichung, Taiwan M.Sc., Life Science	2018
National Chiayi University , Chiayi, Taiwan B.Sc., Animal Science	2014

RESEARCH EXPERIENCE

Doctoral Research , University of Florida, Gainesville, FL Advisor: Kathryn E. Sieving - Investigate how resource quality, social environment, and perceived risk influence vocal communication, information use, and foraging decisions in mixed-species bird groups. - Design and conduct field experiments with Tufted Titmice (<i>Baeolophus bicolor</i>) and Carolina Chickadees (<i>Poecile carolinensis</i>), integrating food manipulations, acoustic playbacks, automated acoustic recording, camera monitoring, and behavioral observations. - Integrate and analyze behavioral, bioacoustic, and environmental data to quantify species-specific vocal and foraging responses across experimental treatments, social contexts, and temporal variation.	2021–Present
Master's Research , National Chung Hsing University, Taichung, Taiwan Advisor: Shao-pin Yo Thesis: <i>The Study of Habitat Utilization for Granivorous Birds and Their Impacts on the Rice Grain Damage in a Natural Farming Field at Wufeng District in Taichung City</i> - Investigated how landscape features and rice-production stages influenced the distribution and abundance of granivorous birds and associated rice-grain damage in a natural-farming rice system. - Conducted systematic bird surveys and rice-damage assessments across landscape contexts, levee types, rice cropping seasons, and growth stages to inform rice-field management and bird-damage mitigation.	2018
Undergraduate Research Intern , National Taiwan Normal University, Taipei, Taiwan Mentor: Si-Min Lin - Investigated how testosterone levels and resource availability influenced immune function in <i>Takydromus viridipunctatus</i> to test predictions of the Immunocompetence Handicap Hypothesis. - Conducted experimental hormone and feeding manipulations, applied topical testosterone treatments, administered phytohemagglutinin (PHA) immune-response assays, and quantified treatment effects on immune response.	2012

PUBLICATIONS & MANUSCRIPTS

Manuscripts in Preparation

Martin, N. W., Howell, S., **Chen, P. A.**, St. Mary, C., & Sieving, K. E. *Freeze, flee, or fact-find: Modeling avian cognitive-mechanistic responses to heterospecific alarm calls while foraging*. In preparation.

PRESENTATIONS

Conference & Research Presentations

Chen, P. A. & Sieving, K. E. (2026, July). *Listening for Food Quality: Species-specific vocal responses in Carolina chickadees and Tufted titmice* [Oral presentation]. 2026 Animal Behavior Society Annual Meeting, Cincinnati, OH, USA.

Chen, P. A. & Sieving, K. E. (2025, July). *Chatter Matters: Parid Calls Reveal Dynamic Information Sampling at Feeders* [Poster presentation]. 2025 Animal Behavior Society Annual Meeting, Baltimore, MD, USA.

Chen, P. A. & Sieving, K. E. (2024, October). *Seets and dees: Exploring the food-related vocalizations of the Tufted Titmouse (*Baeolophus bicolor*) and the Carolina Chickadee (*Poecile carolinensis*)* [Poster presentation]. 2024 American Ornithological Society Annual Meeting, Estes Park, CO, USA.

Chen, P. A. (2024). *Preliminary results on the foraging-related vocalizations of birds in the family Paridae* [Poster presentation]. Suds & Science 2024, Wildlife Graduate Student Association, University of Florida, Gainesville, FL, USA.

Chen, P. A. & Sieving, K. E. (2023, November). *Are social birds talking about food? Food-related vocalizations of Tufted Titmouse (*Baeolophus bicolor*)* [Oral presentation]. Fall 2023 Florida Ornithological Society Meeting, St. Petersburg, FL, USA.

Chen, P. A. & Yo, S. P. (2019, January). *The study of habitat utilization for granivorous birds and their impacts on the rice grain damage in a natural farming field at Wufeng District in Taichung City* [Poster presentation]. 2019 Congress of Animal Behavior and Ecology, Taipei City, Taiwan.

Lin, J. W., Luo, C. H., Lee, K. H., Tseng, W. H., **Chen, P. A.**, & Lin, S. M. (2013, January). *Costs of Being Charming: Tests of the Immunocompetence Handicap Hypothesis in *Takydromus viridipunctatus** [Poster presentation]. 2013 Symposium on Animal Behavior and Ecology, Hualien County, Taiwan.

Invited Presentations

Chen, P. A. (2022). *Influence of food quality and audience effects on functionally referential food calls in Paridae - a brief prospectus*. Invited speaker, ERASMUS+ exchange program, Faculty of Biology, University of Latvia.

TEACHING EXPERIENCE

Graduate Teaching Assistant , School of Natural Resources & Environment <i>University of Florida</i> IDS2935 – Quest 2: Why Maps Matter — Spring 2024; Spring 2025	2024–2025
Graduate Teaching Assistant , Department of Wildlife Ecology & Conservation <i>University of Florida</i> WIS2040 – Wildlife Issues — Summer 2026 WIS2552 – Biodiversity Conservation: Global Perspectives — Summer 2026 WIS4570C – Wildlife Behavior and Conservation — Fall 2021; Fall 2023; Fall 2024; Fall 2025 WIS4547C – Avian Field Research — Spring 2023 WIS3401 – Wildlife Ecology and Management — Fall 2022	2021–2026
Graduate Teaching Assistant , Department of Life Science <i>National Chung Hsing University</i> Laboratory in Ornithology — 2015–2018 Ecological Impact Analysis — 2017	2015–2018

MENTORING EXPERIENCE

Student Mentor , Student Science Training Program (SSTP) <i>University of Florida</i> Mentored two high school students in acoustic data processing, data management, statistical analysis, and scientific presentation.	2024
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CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Great Teaching Certificate , University of Florida Center for Teaching Excellence	September 2025
CIRTL Associate Certificate , University of Florida Center for Teaching Excellence	September 2025
Inclusive Mentoring Academy in Graduate Education (IMAGE) , University of Florida Center for Teaching Excellence	July 2025

AWARDS & FELLOWSHIPS

Best Poster Presentation , 2024 SNRE Research Symposium, University of Florida	2024
Werner and Hildegard Hesse Research Award , American Ornithological Society	2022
Graduate Student Summer Fellowship , University of Florida Biodiversity Institute	2022
Grinter Fellowship , University of Florida Graduate School	2021

GRADUATE ADVISORS

Kathryn E. Sieving , University of Florida	Ph.D.
Shao-pin Yo , National Chung Hsing University	M.Sc.