**CURRICULUM VITAE**

**Ian D. Connelly**

PRESENT ADDRESS:

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EDUCATION

University of Kentucky, Lexington, Kentucky.

M.S. Biology. 2023-Current. (Plan to finish 2025).

Portland State University, Portland, Oregon.

B.S. Environmental Science and Management. 2020.

PROFESSIONAL EMPLOYMENT

Teaching Assistant. Department of Biology, University of Kentucky. 2023-Current.

Teaching Assistant. Department of Physics, Portland State University. 2021.

Research Assistant. P. I. Dr. Sarah A. Sloane. University of Maine at Farmington. 2020.

Research Analyst. P. I. Dr. Christopher L. Butenhoff. Department of Physics, Portland State University. 2020 – 2023.

Manufacturing Technician. Intel Corporation. Hillsboro, Oregon. 2020-2023.

Internship. P. I. Dr. Christopher L. Butenhoff. Research Experience for Undergraduates. Portland State University. 2019.

IT Support Volunteer. Computer Action Team. Portland State University. 2015.

RESEARCH EXPERIENCE

Graduate Student. Co-P.I.s David F. Westneat, PhD and Sarah A. Sloane, PhD. University of Kentucky. 2023-Current.

Research Associate. P. I. Sarah A. Sloane, PhD. University of Maine at Farmington. 2021 - Current.

Independent Undergraduate Research (in collaboration with Scott Schlief, Tony Lind, and Kelli Garcia). Department of Environment Science and Management. Portland State University. 2019.

Teaching / Research Assistant. P. I. Dr. Patrick Edwards. Department of Environmental Science and Management. Portland State University. 2018-19.

PROFESSIONAL PRESENTATIONS

Butenhoff, C.L.\* and I.D. Connelly. 2020. Evaluation of a meteorological model for use in urban-scale monitoring of carbon dioxide emissions in Portland, OR. American Geophysical Union national meeting, San Francisco, CA.

Connelly, I.D., C.L. Butenhoff\*, J. Powell. 2019. Using the WRF model to evaluate the meteorological conditions of Portland, OR: A study to model urban CO2 emissions, American Geophysical Union national meeting, San Francisco, CA.

Butenhoff, C.L.\*, J.P. Powell, I.D. Connelly, G. Bostrom, M. Brooks, L. Hill, and A.L. Rice. 2019. Atmospheric monitoring and modeling of urban carbon dioxide in the Portland, Oregon metropolitan area, The Third CO2-Urban Synthesis and Analysis Workgroup, October, Boston, MA.

Northwest Climate Conference 10th Annual Meeting Poster Session, Portland, OR. 2019.

\*indicates presenter

PUBLICATIONS

Sloane, Sarah A., Amit Gordon, and Ian D. Connelly. 2022. Bushtit (*Psaltriparus minimus*) nestling mortality associated with unprecedented June 2021 heatwave in Portland, Oregon. *The Wilson Journal of Ornithology,* 134(1): 155-162. https://doi.org/10.1676/21-00080

Connelly, Ian D., Kelli Garcia, Tony Lind, and Scott Schlief. 2019. Ecological risk assessment of herbicide ingestion in Oyster Mushrooms (*Pleurotus ostreatus*): implications for wild foraged mushrooms. *ResearchGate*.

CURRENT WORK

Bushtit (*Psaltriparus minimus*) paternity and relatedness:

I am working on investigating bushtit relatedness with Dr. David Westneat and Dr. Sarah Sloane for the first chapter of my Master’s thesis. Using behavioral observational data and ddRAD-seq analysis of blood samples taken from bushtits from 2019-2023, I am investigating the relatedness of bushtits to dive deeper into our understanding of their social structures.

Bushtit (*Psaltriparus minimus*) nest site fidelity:

I am working in collaboration with Dr. Matt Chmielewski using Dr. Sarah Sloane’s 6 years of bushtit data from Portland, OR. Bushtits appear to have exceptionally strong nest site fidelity from year to year. For example, a nest can be rebuilt in the same exact site for multiple years even by different individuals regardless of whether or not the nest site was successful in the past. Using spatial analysis techniques, we are testing the hypothesis that nest site fidelity is due to social relationships within flocks rather than ecological factors such as microclimate or vegetation type.