

Nicholas Bone

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Education

- **Virginia Tech** Blacksburg, VA
PhD: Biological Sciences: Uyeda Lab 2019 - 2024 (expected)
- **Cornell Lab of Ornithology** Ithaca, NY
Visiting PhD student with Eliot Miller Jan 2023 - April 2023
- **Beloit College** Beloit, WI
Bachelor of Science: Evolution, Ecology and Behavioral Biology with Honors 2015 - 2019

Manuscripts

- **Testing the effectiveness of structured hidden Mk models for complex traits**
Nicholas Bone *Josef C. Uyeda*
in prep
- **How Knowledge from Ontologies can Enhance Information from Morphological Data**
Diego S. Porto, Kaine Lovill, Nicholas Bone *Todd J Vision, Josef C. Uyeda*
in prep
- **Fundamental constraints on the evolution of vertebrate life histories**
George Brooks, Holly Kindsvater, Chris Mull, Nicholas Bone, Josef C Uyeda
in prep
- **How should functional relationships be evaluated using phylogenetic comparative methods? A case study using metabolic rate and body temperature**
Josef C. Uyeda, Nicholas Bone, Sean McHugh, Jonathan Rolland, Matthew W. Pennell
Evolution 75 (5): 10971105.

Presentations

- **Science Friday Seminar, Cornell Lab of Ornithology (March 2023)**
Talk: Macroevolution of migratory behavior
- **Evolution Conference (June 2022)**
Poster: Doors and dead-ends in the evolution of avian migration
- **Evolution Conference (June 2021)**
Talk: Testing the effectiveness of structured hidden Markov models

- **Society for Systematic Biology Conference (Jan 2020)**
Poster: Hidden states and threshold traits: dimensions of avian migration
- **VT Research Day (Jan/Feb 2020)**
Poster: Hidden states and threshold traits: dimensions of avian migration
- **Milwaukee Undergraduate Biological Research Conference (April 2018)**
Poster: Limitations of testing for phenotypic convergence using phylogenetic comparative methods
- **Yellow River Institute Kaifeng Uni, Henan and Beloit College International Symposium (Nov. 2017)**
Talk: Rivers in Transition: Cultural and Physical Landscapes Along China’s Yellow River
- **Mid-States Undergraduate Conference: Washington University (Nov. 2017)**
Talk: Evidence of Convergence in *Liolaemus* and *Sceloporus*
- **23rd McNair Undergraduate Conference: SUNY Buffalo (July 2017)**
Talk: Evidence of Convergence in *Liolaemus* and *Sceloporus*

Awards, Grants & Honours

NSF Graduate Research Fellowship	March 2020
Dean’s Diversity Fellowship	2019
American Naturalist Travel Award	Sept. 2019
Honors Graduate – Biology	May 2019
Dean’s Award	2015-2019
WiscAMP Scholar Grant	2017-2018
WiscAMP Travel Award	2018
Dean’s List	2015, 2016, 2017

Teaching and Mentoring

- **Undergraduate research mentor** *Colin Greear, BIOL2964, BIOL2994 (3 semesters, Summer 2022 - Spring 2023)*
- **Guest lecturer: Intro to Biology – two sections (2022)**
- **Guest instructor: Quantitative Evolutionary Biology (2022)**

Service

- **Invasive Species BioBlitz (2022)**
Organized community iNaturalist sampling event and did data visualization for the Town of Blacksburg.

- **Reviewer (ongoing)**

Evolution journal (3 manuscripts)

- **Restoration Ecology Intern (Summer 2019)**

Organized and ran Invasive Species Removal Days for high-school students in the Chicago-area

- **WiscAMP/LSAMP Mentor (2016-2018)**

Participated in programs and workshops relating to expanding the participation of underrepresented minorities in STEM fields. Mentored underclassmen in research practices