

Jacob Johnson

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EDUCATION

University of California, Davis
Pursuing Doctor of Philosophy in Animal Behavior

The University of Chicago, Chicago, IL
B.A in the History, Philosophy and Social Studies of Science and Medicine (Honors)

AWARDS AND HONORS

Member, Phi Kappa Phi Honors Society (2022)
Invited Speaker, Animal Behavior Graduate Group Conference (2022)
Invited Speaker, Society for Integrative and Comparative Biology (2021)
The Dean's List (2016-2019)
1st Place Winner, Joseph Crerar Science Writing Prize (2018)

WORK EXPERIENCE

UC Davis College of Biological Sciences, Davis, CA

Teaching Assistant, September 2020-Present

- Instruct undergraduate students in evolutionary biology and animal behavior.
- Lead weekly laboratory seminars in plant, animal, and fungal taxonomic identification.
- Evaluate and teach science communication strategies to new researchers.

Climate Solutions Advocacy Group, Davis, CA

Graduate Team Leader, June 2022-Present

- Coordinate teams of graduate students to research, draft, and promote a new solar farm bill in CA.
- Lead public outreach initiatives with local farmers, landowners, and politicians.
- Design a multidisciplinary research program to study solar panel-wildlife impacts in the Central Valley.

RESEARCH EXPERIENCE

Tom Hahn, PhD. Department of Neurobiology, Physiology, and Behavior, University of California, Davis, Davis, CA

Graduate Student Researcher, September 2020-Present

- Write and publish papers focusing on animal behavior in extreme and novel environments.
- Capture, band, measure, and study condition of songbirds in Northern California.
- Lead a research team to study the impacts of wildfires on bird behavior.
- Give talks on research at conferences, such as the Society for Integrative and Comparative Biology (*SICB*).

Andrew Sih, PhD. Department of Environmental Science & Policy, University of California, Davis, Davis, CA

Laboratory Research Leader, November 2021-Present

- Co-lead a team of graduate and undergraduate students studying how fire, pesticides, and predation affect arthropods.
- Design experiments and construct specialized test chambers to simulate wildfires.
- Help undergraduate students develop unique research goals and design experiments.

PUBLICATIONS

Tal Caspi,¹ Jacob Johnson,¹ Max Lambert, Christopher Schell, and Andrew Sih. (2022). Behavioral plasticity can facilitate evolution in urban environments. *Trends in Ecology & Evolution*, S0169-5347(22)00197-5. <https://doi.org/10.1016/j.tree.2022.08.002> (¹Equal Authorship)

Alice Michel, Jacob Johnson, Euan Richie, Richard Szeligowski, and Andrew Sih. Integrating sensory ecology and predator-prey theory to understand animal responses to fire. *Ecology Letters* (in review).

Jacob Johnson, Richard Szeligowski, Zhiyuan Yu. Multiple environmental stressors influence arthropod personality (in preparation).

Shane DuBay, Yongjie Wu, Graham Scott, Yanhua, Qiao Liu, Joel Smith, Xin Chao, Andrew Hart Reeve, Jueng Cheng, Dylan Meyers, Jing Wang, **Jacob Johnson**, Zachary Cheviron, Fumin Lei, and John Bates. (2020). Life history predicts flight muscle phenotypes and function in birds. *Journal of Animal Ecology*, 89(5), 1262-1276. doi:10.1111/1365-2656.13190

SKILLS

- Proficient in capturing, banding, and treating songbirds.
- Experienced lab and field research team leader.
- Proficient in R, ImageJ, and Microsoft Office Suite.
- Fully proficient in written and conversational Spanish.

REFERENCES

Thomas Hahn

Professor, Dept. of Neurobiology, Physiology, and Behavior, College of Biological Sciences
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Andrew Sih

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