Stanford



David Au

Postdoctoral Scholar, Neurobiology

Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- Interdisciplinary Postdoctoral Fellowship, Stanford Wu Tsai Neurosciences Institute (2026)
- NIH NRSA F32, NEI (2024)
- PRISM Baker Fellowship, Stanford (2023)
- Propel Fellowship, Stanford (2023)

PROFESSIONAL EDUCATION

- Ph.D., UC Irvine , Biomedical Sciences (2023)
- B.S., University of Utah , Biomedical Engineering (2016)

STANFORD ADVISORS

- Stephen Baccus, Postdoctoral Faculty Sponsor

LINKS

- Linkedin: https://www.linkedin.com/in/david-au-605b19117/

Publications

PUBLICATIONS

- **A method to assess individual photoreceptor contributions to cortical computations driving visual perception in mice**
  Au, D. D., Melander, J. B., Weddington, J. C., Baccus, S. A.
  SPRINGER.2026
- **Drosophila photoreceptor systems converge in arousal neurons and confer light responsive robustness** *FRONTIERS IN NEUROSCIENCE*
  Au, D. D., Liu, J. C. C., Park, S., Nguyen, T. H., Dimalanta, M., Foden, A. J., Holmes, T. C.
  2023; 17: 1160353
- **Nocturnal mosquito Cryptochrome 1 mediates greater electrophysiological and behavioral responses to blue light relative to diurnal mosquito Cryptochrome 1** *FRONTIERS IN NEUROSCIENCE*
  Au, D. D., Liu, J. C., Nguyen, T. H., Foden, A. J., Park, S., Dimalanta, M., Yu, Z., Holmes, T. C.
  2022; 16: 1042508
- **Mosquito cryptochromes expressed in Drosophila confer species-specific behavioral light responses** *CURRENT BIOLOGY*
  Au, D. D., Foden, A. J., Park, S., Nguyen, T. H., Liu, J. C., Tran, M. D., Jaime, O. G., Yu, Z., Holmes, T. C.
  2022; 32 (17): 3731-+

- **Circadian Regulation of Light-Evoked Attraction and Avoidance Behaviors in Daytime-versus Nighttime-Biting Mosquitoes** *CURRENT BIOLOGY*
  Baik, L. S., Nave, C., Au, D. D., Guda, T., Chevez, J. A., Ray, A., Holmes, T. C.
  2020; 30 (16): 3252-+
- **Distinct mechanisms of Drosophila CRYPTOCHROME-mediated light-evoked membrane depolarization and in vivo clock resetting** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Baik, L. S., Au, D. D., Nave, C., Foden, A. J., Enrriquez-Villalva, W. K., Holmes, T. C.
  2019; 116 (46): 23339-23344
- **Multiple Phototransduction Inputs Integrate to Mediate UV Light-evoked Avoidance/Attraction Behavior in Drosophila** *JOURNAL OF BIOLOGICAL RHYTHMS*
  Baik, L., Recinos, Y., Chevez, J. A., Au, D. D., Holmes, T. C.
  2019; 34 (4): 391-400
- **Maximizing fibroblast adhesion on protein-coated surfaces using microfluidic cell printing** *RSC ADVANCES*
  Davidoff, S. N., Au, D., Gale, B. K., Brooks, B. D., Brooks, A. E.
  2015; 5 (126): 104101-104109