

BRANDON HACKNEY

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EDUCATION

Ph.D., Cognitive Sciences (2025)

University of California, Irvine (UCI)

Dissertation: “Neural Underpinnings of Social Cognition”

Committee: Drs. Emily D. Grossman (chair), Gregory Hickok, & Megan A.K. Peters

M.S., Cognitive Neuroscience (2022)

University of California, Irvine (UCI)

Thesis: “An Overview of the Function of the Posterior Superior Temporal Sulcus”

Advisor: Dr. Emily D. Grossman

B.A., Psychology (2015) *cum laude, honors program*

California State University, Northridge (CSUN)

Advisor: Dr. Stefanie A. Drew

A.A., Social & Behavioral Sciences (2010) *with honors*

A.A., Arts & Humanities (2010) *with honors*

Moorpark College

TEACHING EXPERIENCE

Guest Lectures

- Guest lecture (February 2022) on Declarative Memory, PSYCH 160A Cognitive Neuroscience

Teaching Assistant (September 2019 – Present)

Cognitive Sciences Department, UCI, Irvine, CA

- COGS 14M MATLAB Programming
- PSYCH 7A Introduction to Psychology
- PSYCH 10A Probability and Statistics in Psychology
- PSYCH 111/112A, B, C Research in Experimental Psychology
- PSYCH 112P Perception Research
- PSYCH 119/112N Introduction to fMRI Research
- PSYCH 160A Cognitive Neuroscience
- PSYCH 146MW Writing About Memory
- SS 3A Computer-Based Research in Social Sciences
- FLM/MDA 101D Radio & TV History

SCHOLARSHIP

Publications

Hackney, B. C., Pyles, J. A., & Grossman, E. D. (2024). A quantitative comparison of atlas parcellations on the human superior temporal sulcus. *Human Brain Mapping*, 1842, 149119.

doi: 10.1016/j.brainres.2024.149119

Drew, S. A., Awad, J. F., **Hackney, B. C.**, & Fenn, E. (2018). Orange is less than green: An examination of bidirectionality in grapheme-color synesthesia. *Perception*, 47(8), 881-891.

doi:10.1177/0301006618779485

National Conference Poster Presentations

Zhou, X., **Hackney, B. C.**, Torabian, S., Pyles, J. A., & Grossman, E. D. (2023, September). *Decode the unseen: Classifying action representations during the anticipatory interval in the Action Observation Network*

(AON). Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

- Hackney, B. C.**, Awad, M. F., Del Cid, D. A., Mosher, R. L., Kangavary, A., & Drew, S. A. (2018, November). *Impact of virtual reality headset use on ocular function and subjective discomfort*. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Larranaga, D., **Hackney, B. C.**, Delgado, C. Y., McGinnis, C. A., Kangavary, A. & Drew, S. A. (2018, May). *An evaluation of the effects of English Second Language Status on overt attention to different word classes during a continuous reading task*. Poster session presented at the annual meeting of the Association for Psychological Science, San Francisco, CA.
- Mosher, R. L., Del Cid, D. A., **Hackney, B. C.**, Ilnicki, A., & Drew, S. A. (2017, November). *Examining accommodative changes after using head-mounted virtual immersion displays*. Poster session presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Awad, J. F., **Hackney, B. C.**, Morales, R., Doty, T., Mosher, R. L., & Drew, S. A. (2017, November). *Exploration of different processes in synesthetic bidirectionality*. Poster session presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Lundqvist, S., Buenrostro, J., **Hackney, B. C.**, & Drew, S. A. (2017, May). *Reading colors: A study on bidirectional effects in grapheme-color synesthesia*. Poster session presented at the annual meeting of the Association for Psychological Science, Boston, MA.
- Awad, J. F., Urenda, N., Larranaga, D., **Hackney, B. C.**, & Drew, S.A. (2016, November). *Consistently incorrect: Potential implicit numerical activation in non-synesthetes*. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Buenrostro, J., Del Cid, D., **Hackney, B. C.**, Awad, J. F., Gorji, T., & Drew, S. A. (2016, May). *When colors spell words: A study on the bidirectionality effect in synesthesia*. Poster session presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Hackney, B. C.**, Awad, J. F., Hill, L. D. J., Levy, H. N., & Drew, S. A. (2015, October). *Spelling with color? An investigation into the bidirectionality of synesthesia*. Poster session presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

University Research Presentations

- Hackney, B. C.**, Pyles, J. A., & Grossman, E. D. (2022, May). *Can anatomical parcellation meaningfully define functional ROIs? A quantitative comparison of four algorithms*. Intramural talk given at the annual Cognitive Sciences Graduate Student Bonanza, UCI, Irvine, CA.
- McGinnis, C., Larranaga, D., **Hackney, B.**, Delgado, C. & Kangavary, A. (2018, April). *An evaluation of the effects of English Second Language status on overt attention to different word classes during a continuous reading task*. Poster session presented at the annual Research & Creative Works CSUNposium, CSUN, Northridge, CA.
- Awad, J. F., **Hackney, B. C.**, & Drew, S. A. (2017, April). *Teal is less than purple: A study on bidirectionality in synesthesia*. Poster session presented at the annual Student Research & Creative Works CSUNposium, CSUN, Northridge, CA.
- Hackney, B. C.**, Awad, J. F., Hill, L. D. J., Levy, H. N., & Drew, S. A. (2015, May). *Spelling with color? An investigation into the bidirectionality of synesthesia*. Poster session presented at bi-annual Psi Chi Research Competition, CSUN, Northridge, CA.

HISTORY OF PROFESSIONAL MEMBERSHIPS

- Society for Neuroscience
- Vision Sciences Society
- American Psychological Society

PROFESSIONAL SERVICE

Ad-hoc Journal Reviews

- Journal of Vision (2021)

UNIVERSITY SERVICE**Committee Membership**

- Colloquium Committee, UCI Cognitive Sciences (2022–2023)

TECHNICAL SKILLS

- **Equipment:** Siemens MAGNETOM Prisma 3T MRI, Grand Seiko WAM-5500 open-field autorefractor, SR Research EyeLink 1000 Plus and Eyelink II eye tracking systems
- **Programming:** MATLAB, PsychToolbox, some R and Python including OpenCV

HONORS

- 1st place Psi Chi Research Competition, Advanced Division (May 2015) – CSUN
- Dean's list – CSUN
- Dean's list – Moorpark College