Lauren Davidson

RESEARCH INTERESTS

My current research interests lie in the areas of Judgement and Decision Making, and how cultural differences/similarities and cognitive biases influence the process of making decisions. By using process tracing techniques, such as mouse tracking and eye tracking, I aim to investigate the decision-making process in more detail.

EDUCATION

Miami University, Oxford, Ohio

-PhD. in Cognitive Psychology, December 2024

Dissertation: "Influences of Culture on the Effects of Nudging Towards Healthy Snacks"

-Masters in Cognitive Psychology, August 2022

Thesis: "Colorism and Black Stereotypes and its Effects on Decision Making in Negative and Positive Scenarios: Looking Beyond the Final Choice"

-Applied Statistics Certificate, awarded December 2022

University of South Florida, Tampa, FL

-BA in Psychology and Economics, May 2017

-Minor in Criminology
-Graduated with Honors and Magna Cum Laude

RESEARCH / TEACHING EXPERIENCE

Research Experience

Graduate Research Assistant, Miami University, Oxford, OH 2018-2024

- Computational Cognition Lab

-Advisor: Dr. Joseph Johnson

-Assisted helping undergraduate students in creating and running psychological studies
-Coordinated RAs for lab projects
-Well versed in both qualitative and quantitative data collection and analysis
-Analyzed data from collected from lab projects
-Mouse tracking
-Eye tracking

-Choices made

-Maintained IRB protocols for each project in the lab

-Designed, conducted, and analyzed data in these experiments:

- Dissertation: It was explored if the framing of information in the context of different social groups would be effective in changing behavior and if any effects from these frames were influenced by cultural factors. Decisions were tracked via mouse tracking in addition to actual choices made.

- Thesis: It was explored if differing levels of Afrocentricity were tested to show its effect on the shooter bias effect and occupation bias effect that occurs between White and African American people. Response times, choices, and mouse tracking was used to measure decisions in this study.

Graduate Research Assistant, 2021- 2022 2021-2022

- Center for Neuroscience and Behavior
  - Assisted in collecting and analyzing EEG data

Research Assistant, 2015-2017, University of South Florida, Tampa, FL

- Judgment and Decision-Making Lab 2015-2017

-Advisor: Dr. Sandra Schneider

-Responsibilities included running computer-based experiments, and collecting and interpreting data

-Created and ran an experiment for an undergraduate honors thesis

-Duties included the running of the experiment, analysis and write up of the data

Teaching Experience

Instructor of Record, 2022-2024

- Research Design and Analyses in Psychology II Fall 2022 – Spring 2024
  - Teaching undergraduate students how to identify and design different types of experiments, how to conduct an ethical experiment, and how to analyze data depending on experimental design
  - Formatted this class to be able to run virtually or in person
  - Experience with both large and small class sizes
  - Writing intensive undergraduate course with 22-48 students that includes a lab
  - Developed labs, lectures, exams, and projects
  - Topics included research designs, ethics, APA, presenting results

Teaching Assistant, 2018 – 2020, Miami University, Oxford, OH

- Statistics and Methods I Fall 2020
  - Graduate level course, online during COVID pandemic

- Topics include mediation, moderation, and various regression models, and how to analyze and interpret these results using SPSS

- Research Design and Analyses in Psychology II 2019-2020
  - Teaching undergraduate students how to identify and design different types of experiments, and how to analyze data depending on experimental design

- First-Year Research Experience (FYRE) 2018-2019
  - Mentored two groups of first-year undergraduate students in creating and analyzing an experiment from start to finish.
  - Analyzed data collected from these projects

CERTIFICATIONS AND CURRENT SKILLS

Research Skills/Certifications

- Certificate in Applied Statistics
- CITI – Human Subjects Research
- Data analysis - SPSS
- Qualtrics
- Diversity, Equity, and Inclusion Training
- Well-versed in implementing response dynamics methods and analyzing response dynamics data

Software Skills

- Canvas
- Microsoft Office Suite
- Coding languages: MatLab
- Qualtrics
- SPSS
- Opensesame

PUBLICATIONS AND PRESENTATIONS

- Johnson, J., **Davidson, L.,** Lemli, B., Pikus, K., Dusing, V. (2024, May) *Using Virtual Environments to Study Decision Making and Individual Differences.* Midwest Cognitive Science Talk Session, Athens, OH.

- Pikus, K., **Davidson, L.**, & Johnson, J. (2024, April) *Perceived Popularity's Influence on Snack Choices.* Hinkle Poster Session, Miami University, Oxford, OH.

- Pikus, K., **Davidson, L.**, & Johnson, J. (2024, April) *Perceived Popularity's Influence on Snack Choices* Undergraduate Research Forum, Miami University, Oxford, OH.

- Pikus, K., Lett, S., Craig, K., Dusing, T., Miller, M., Reger, M., Weinstein, E., Speranza, I., Vo, C., Chadd, K., **Davidson, L.**, Pettit, E., & Johnson, J. (April 2023) *Monitoring Attention and Choice Conflict During Decision Making.* Hinkle Poster Session, Miami University, Oxford, OH.

- Pikus, K., Lett, S., Craig, K., Dusing, T., Miller, M., Reger, M., Weinstein, E., Speranza, I., Vo, C., Chadd, K., **Davidson, L**., Pettit, E., & Johnson, J. (2023, April) *Monitoring Attention and Choice Conflict During Decision Making.* Undergraduate Research Forum, Miami University, Oxford, OH.

- Asiala, L., **Davidson, L.**, Garrison, T., Johnson, J. G., McCarthy, J. E., Pettit, E., Thomas, R. (2022, August). A software toolkit for predicting the neural signatures of cognitive states, Final report. Technical Report submitted to Air Force Office of Scientific Research. [Alphabetical authorship order]

- Vo, A., Pikus, K., Pettit, E., Moughan, E., Lett, S., Vo, C., Sarvagya, V., Bruder, R., **Davidson, L.**, & Johnson, J. (April 2022). Measuring Attention and Response Dynamics Across Choice Types. Undergraduate Research Forum, Miami University, Oxford, OH.

- Johnson, J.G., Thomas, R. D., **Davidson, L.,** Collins, A., Pettit, E. (2021, July) Informing Computational Models of Perceptual and Risky Decision Making with EEG and Individual Differences. Fast talk at MathPsych/ICCM, Virtual conference

- Pikus, K., Vo, A., Pettit, E., Moughan, E., Bruder, R., Lett, S., Vo, C., Sarvagya, V., **Davidson, L.,** & Johnson, J. G. (2021, April) *Measuring Attention and Response Dynamics Across Choice Types.* Hinkle Poster Session, Miami University, Oxford, OH.

- Sarver, K. A., Contreras, N., Petit, E., Vo, C., **Davidson, L.,** Johnson, J. G. (2021, April). Understanding Standardized Test Performance and Stress with Eye-Tracking. Poster presented at the Virtual Stephen Hinkle Poster Session, Oxford, OH.

- **Davidson, L**., Dandignac, M., Drew, A., Frame, M., Pettit, E. & Johnson, J. G. (2019, November) Response Dynamics of the Police Officer's Dilemma: The Role of Time Pressure and Presentation Order as Attenuating Factors of Bias. Poster presented at the annual Society for Judgement and Decision Making conference at the Montreal Convention Center, Montreal, Quebec, Canada

- Ezpeleta, A., Dandignac, M., **Davidson, L.**, Johnson,J. G. (2019, May). Implications for Testing: The Relationships Among Stress, Working Memory, and Comprehension Levels in College Students Talk presented at the annual Midwest Cognitive Science conference at Ohio State University, Columbus, Ohio

- Pettit, E., **Davidson, L.,** & Johnson, J. G. (2019, May). Individual Differences in Decision Making: How Does Attention Affect Context Effects? Poster presented at the annual Midwest Cognitive Science conference at Ohio State University, Columbus, Ohio

- Yamashiro, L., Schimek, S., Edwards, L., Gans, D., **Davidson, L.**, Hosey, V., Johnson, J. G. (2018, April) Stress in Adjustment to College Life: Acculturative Stress in Asian International Students. Presented at Stephen Hinkle Poster Session, Oxford, OH.

- Tietjen, A., Waters, C., Bogdanski, E., Hassaballa, M., **Davidson, L.**, Hosey, V., Johnson, J. G. (2018, April) Stress & Eating Habits in College Students. Presented at Stephen Hinkle Poster Session, Oxford, OH.

- **Davidson, L.,** (2017, October) Pilot of Effects of Surrounding Experience and Realizing on Risk Taking. Presented at Undergraduate Research and Arts Colloquium at USF.

- **Davidson., L** (2017, April) Pilot of Effects of Surrounding Experience and Realizing on Risk Taking. Presented in the Psych Expo at USF.

AWARDS

- Graduate Student Research Support Award
- Psi Chi Graduate Student of the Year Award

CURRENT PROJECTS

- Influences of Culture on the Effects of Nudging Towards Healthy Snacks. (In progress manuscript)

- Cognitive Load and the Police Officer's Dilemma: As Measured Through Response Dynamics (In progress manuscript)

- Response Dynamics of the Police Officer's Dilemma: The Role of Time Pressure and Cue Presentation Order as Attenuating Factors of Bias (In progress manuscript)