

Managerial Responsibilities: Assist with fMRI, EEG, tDCS, and behavioral data collection for eight postdoctoral fellows and graduate students. Maintain lab equipment (EGG, StarStim). Train and manage ten undergraduate research assistants. Manage human subject protocols, make sure the laboratory's practices are compliant with the university's IRB, purchase supplies and equipment, manage computers and user accounts.

Research Assistant (July 2014-June 2015)

Advisor: Arne Ekstrom, Ph.D.

Human Spatial Cognition Lab, Center for Neuroscience, University of California, Davis

Projects: While working in the Ekstrom lab, I proposed and conducted my own original experiment. Along with the conception of the idea, I designed the paradigm, helped to script the experiment and stimulus presentation in Matlab, collected data from 75 participants, analyzed data using R, presented my research as a poster and a 15-minute talk at multiple conferences (see "PRESENTATIONS AND TALKS" below), and wrote the manuscript. A revision of this work was requested and it has been re-submitted to Memory and Cognition.

Responsibilities: Scheduled participants for testing obtained informed consent, ran participants and collected behavioral data; gained proficiency in MATLAB and Unity for running experiments, coded experimental data for analysis; participated in lab meetings; MRI safety trained December 2014 to observe fMRI and MRI experiments; conducted an honors thesis in 2015.

Research Assistant (April 2014-June 2015)

Advisor: Kristin H. Lagattuta, Ph.D.

Mind-Emotion Development Lab, Center for Mind and Brain, University of California, Davis

Projects: While working in the Lagattuta lab I was involved with two projects: one that studied the development of children's moral judgments and decision making and the other was a future forecasting experiment that aimed to study the influence of inhibitory control on children's ability to predict future events.

Responsibilities: Recruited and scheduled participants, obtained informed consent, ran child (4- to 13-year-olds) and adult participants, collected behavioral data, coded behavioral data, inputted data into SPSS for statistical analysis, created and edited stimuli in Photoshop, contributed to many discussions regarding interpretations of data, proofread abstracts and drafts of manuscripts.

PUBLICATIONS

Bouffard, N., Stokes, J., Kramer, H. J., Ekstrom, A. D., (under review) Temporal encoding strategies result in boosts to free recall performance comparable to spatial ones. *Memory and Cognition*

PRESENTATIONS AND TALKS

Libby, L. A., **Bouffard, N. R.***, Ranganath, C. Context-dependent decision-making: hippocampal-cortical interactions. Presented as a poster at the Bay Area Memory Meeting 2017.

Libby, L. A.*, **Bouffard, N. R.**, Ranganath, C. Context-dependent decision-making: hippocampal-cortical interactions. Co-author of poster at Society for Neuroscience Annual Meeting 2016.

Roberts, B. M.*, Wang, S. F., Montchal, M., Wade, A., **Bouffard, N.**, Ragland, J. D., Carter, C., Ranganath, C. Effects of transcranial direct current stimulation (tDCS) on neural oscillations during episodic memory encoding and retrieval. Co-author of poster at Society for Neuroscience Annual Meeting 2016.

Bouffard, N. R.*, Stokes, J., Kyle, C., Lieberman, J., Ekstrom, A. Temporal encoding strategies produce comparable boosts in free recall performance to spatial encoding strategies. Presented as a poster at Society for Neuroscience Annual Meeting 2015.

Bouffard, N. R.*, Stokes, J., Kyle, C., Lieberman, J., Ekstrom, A. Temporal encoding strategies produce comparable boosts in free recall performance to spatial encoding strategies. Presented as a talk at the Bay Area Memory Meeting 2015.

Bouffard, N. R.*, Stokes, J., Kyle, C., Lieberman, J., Ekstrom, A. Temporal Method of Loci. Presented as a poster at the Stanford Undergraduate Research Conference 2015.

Bouffard, N. R.*, Stokes, J., Kyle, C., Lieberman, J., Ekstrom, A. Temporal Method of Loci. Presented as a talk at the University of California, Davis Undergraduate Research Conference 2015.

RESEARCH COMPETENCIES

MRI Operator/safety certified: Certified to collect data in fMRI experiments. (Safety certified since 12/2014 and operator certified since 7/2015)

R: Proficient in R, have used to compute descriptive statistics as well as repeated measures ANOVA, t tests, correlations, and to plot behavioral data.

MATLAB/Psychtoolbox: Proficient in Matlab. Have written scripts to present stimuli for experiments. Have also written scripts for coding and organizing behavioral data, computing descriptive statistics, and plotting behavioral data.

FSL: Used to preprocess fMRI data and run first and second level GLM

Photoshop: Used to create and edit stimuli.

SPSS: Used to input behavioral data for repeated measures ANOVA and correlation analyses.

RELEVANT COURSES

PSC41- Research Methods in Psychology
PSC100- Introduction to Cognitive Psychology
PSC101- Introduction to Psychobiology
PSC113- Developmental Psychobiology
PSC135- Cognitive Neuroscience: The Biological Foundations of the Mind
PSC140- Developmental Psychology
PSC168- Abnormal Psychology
PSC103A-Statistical Analysis of Psychological Data
PSC230- (Graduate level seminar) Cognitive Psychology
PSC190- (seminar) Advanced Cognitive Development
EDU110- Educational Psychology: General
NPB101- Systemic Physiology
BIS101- Genes and Gene Expression
CHE118A&118B- Organic Chemistry for Health and Life Sciences
PSC125- Behavioral Genetics and Epigenetics
PSC190- (seminar) Advanced Cognitive Neuroscience
PSC290- (Graduate level seminar) Cognitive Control and Mind-wandering

*Post-graduation

PSC210 – (Graduate level seminar, audited) Fundamentals of Cognitive Neuroimaging
PSC209A – (Graduate level seminar, audited) Intro to Matlab Programming

WORK EXPERIENCE

Junior Specialist (July 2015-Present)

Dynamic Memory Lab, Center for Neuroscience
University of California, Davis
Advisor: Charan Ranganath, Ph.D.

Responsibilities: see “RESEARCH EXPERIENCE”

Special Transitional Enrichment Program Tutor (Summer 2013, Summer 2014)

Student Academic Success Center, University of California, Davis

Responsibilities: Tutored incoming freshmen from underprivileged areas in statistics.

Drop-in Tutor (August 2013- June 2014)

Student Academic Success Center, University of California, Davis

Responsibilities: Tutored small classrooms of UC Davis students in elementary statistics

Intercollegiate Athlete Tutor (March 2013- March 2014)

Student Academic Success Center, University of California, Davis

Responsibilities: Tutored student-athletes in calculus and statistics for two hours a week and prepared weekly lessons.

REFERENCES

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