

Emily Russell

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EDUCATION

Graduate Certificate in Cognitive Neuroscience	George Mason University, Fairfax VA	ongoing
BS in Applied Experimental Psychology Research Advisor: Dr. Ivan K. Ash Minor: Dance Performance	Old Dominion University, Norfolk VA GPA: 3.67 GPA: 3.89	2020

RESEARCH INTERESTS

Investigations in the validity of methods for Cognitive Science experiments, in particular studies examining visual attention.

RESEARCH EXPERIENCE

Honors Thesis

2019 - 2020

Departmental Honors Program

- Competitive program to begin a personal experiment and Honors Thesis and mentored under Dr. Ivan Ash studying Creative Problem Solving
- Submission of a formal thesis proposal and experimentation supported through this program

Honors Independent Experimentation

2019

Departmental Honors Program

- Prepared a thesis proposal while pilot testing my experiment titled: "Validity of Eye-tracking as a Measure of Impasse"
- Program included sharing monitoring equipment with the Human Factors Lab

Honors Physiological Psychology

2019

Perry Honors College

- Application of neuroanatomy by an independent project to create a brain to scale out of hot glue
- Observer could open brain to see a scaled representation of lobes, nerves, and the brain stem.

Research Presentation

2019

University President and Board of Visitors

- Research presented discussed the reliability of working memory
- Investigated Cohen's Kappa values of various impasse measures; Aha! Rating, Think Aloud Protocols, and self-reported ratings

Independent Researcher

2019 - 2020

Human Cognition Laboratory with Dr. Ivan Ash

- Work began on an independent project on the theory of insight problem solving and compared Think Aloud Protocol, Aha! Ratings, and eye-tracking
- Project lasted over one year and has been halted due to COVID-19

Supervised Research

2018 - 2019

Departmental Honors Program

- Research assistant for two different experiments being conducted by graduate students in the lab
 - Research on working memory methods and reliability under Ekaterina Shurkova
 - Physiological basis for working memory under Dr. Ivan Ash by a different graduate student examined

Working Memory Experiment Volunteer**2018 - 2019***Human Cognition Laboratory with Dr. Ivan Ash*

- Studied working memory through compound remote associate's tasks, video recording for signs of impasse, and self-reported ratings
- Thorough training on Think Aloud Protocol and coding for impasse (60+ hours)
- Ran participants on the study being conducted by Ekaterina Shurkova

Honors Human Cognition**2018***Perry Honors College*

- Introduction to research in a lab setting with research papers, lessons on integrating appropriate statistics to experiments, and exposure to a graduate thesis

Medical Research Apprentice**2018***Eastern Virginia Medical School*

- Project completion by myself and Dr. Serina Newmann, Dean of Psychiatry and Behavioral Sciences at Eastern Virginia Medical School, and a resident student
- Application, literature review, full statistical analysis and experimentation to study the effects of high vs. low frequency TMS therapy for mood disorders such as anxiety and depression
- Included a split-plot ANOVA, correlations, regressions, and interpretations of data analysis

Honors Education**2017 - 2020***Perry Honors College*

- Out of almost 25,000 students, only the top 3% are able to join the Perry Honors College. A minimum of 3.5 college GPA is required, as well as progress towards Honors Requirements that consist of:
 - civic engagement project to impact the local community
 - honors courses (at least 12 credits of honors courses alone)
 - experiential learning for a holistic education addition to academics (like lab work or study abroad)
 - research engagement (independent studies and apprenticeships)
 - presentation of work (in a public forum, including application processes)
 - capstone coursework (extensive writings on research models, formatted in APA to publishing standards)
- Specialized courses which require extensive knowledge on a thematic topic (Honors Literature in Medicine) and critical thinking followed by application of knowledge
 - In my Honors History course, for example, it was my responsibility to defend arguments of historical figures through only primary documents and investigation into cultural context at the time in which it was written
- Courses included a civic engagement portion in which students were given the opportunity to see lecturers and relate information to the academic material

GRANTS**Undergraduate Research and Creativity Grant**

Successful application and completion of a \$3,000 research grant to continue research under Dr. Ivan Ash in his Human Cognition and Creativity Lab. Distributed in the Fall of 2019, the grant provided support for the lead researcher (myself) to code a new program on E-Prime 3 software.

Honors Research and Innovation Grant

Application and award for \$1,500 over the summer of 2019 to experiment in the lab of Dr. Ivan Ash. Investigation into prior studies on validity and reliability of eye-tracking as a measure of impasse, as well as experiment proposal and preliminary programming was completed.

Prestigious Scholars Award

Successful application and award for tuition cost to study statistics on a graduate level for the Spring of 2020, including topics such as split-plot ANOVAs and MANOVAs.

RESEARCH PRESENTATIONS

- “Validity and Reliability of Eye-tracking as a Measure of Impasse in Creative Problem Solving,” Undergraduate Research Symposium, Old Dominion University, Norfolk VA, February 2020.
- “What is Research?” Honors College Scholars Panel, Old Dominion University, Norfolk VA, February 2020.
- “Validity and Reliability of Eye-tracking as a Measure of Impasse in Creative Problem Solving,” Perry Honors College Research Showcase, Old Dominion University, Norfolk VA, February 2020.
- “Investigating the Interrater Reliability in Coding of Think Aloud Protocols for Impasse,” University President and Board of Visitors, Old Dominion University, Norfolk VA, April 2019.
- “Does Low versus High Frequency Transcranial Magnetic Stimulation (TMS) Treatment Expedite Mood Symptom Reduction?” Eastern Virginia Medical School, Old Dominion University, Norfolk VA, April 2018.

HONORS & AWARDS

Best Overall Award, Undergraduate Research Symposium	2020
Undergraduate Research Symposium Award (Ranked #2 out of 200+ Presenters)	2020
University Honor Graduate, Magna Cum Laude, Old Dominion University	2020
Gold Medalist for the LeADERS Program Projects in Leadership, Academics, Diversity, Entrepreneurship, Research and Service Learning	2020
Program for Undergraduate Research and Scholarship Graduate	2019 – 2020
Director of Choreography for FASA (Panddango Sa Ilow, Banko, Modern and Tinikling)	2019 – 2020
Sigma Sigma Sigma Sorority Graduate	2018 – 2020
Order of Omega Graduate, Old Dominion University	2018 – 2020
Sophomore Scholar, University Award for Academic Excellence	2018
Lead actress for a 4 hr program of Filipino American history in the 1930s (FASA)	2017 - 2018
Executive Board Treasurer for Filipino American Student Association	2017
Delta Alpha Pi Honors Fraternity Graduate	2017 – 2020
Monarch Scholar, University Award for Excellence	2017
Honors College Graduate, Perry Honors College	2017 – 2020
Filipino American Student Association (FASA) Graduate	2016 – 2020
Dean’s List, Honors Distinction for Academic Pursuits	2016 - 2020

PROFESSIONAL DOCUMENTS

- Garvey, Joe. “Honors College Undergraduate Research Symposium Showcases Work of More Than 150 Students.” *News @ ODU*, 14 Feb. 2020, https://www.odu.edu/news/2020/2/undergraduate_research#.X2ktmJNKiko.
- Russell, E., Ash, I., (2020). *Validity and Reliability of Eye-tracking as a Measure of Impasse Problem Solving* [Published Presentation Abstract] ODU Digital Commons.
<https://digitalcommons.odu.edu/undergradsymposium/2020/postersession/33/>
- Russell, E., Ash, I. (2019). *Validity and Reliability of Eye-tracking as a Measure of Impasse Problem Solving* [Unpublished Undergraduate thesis proposal] Old Dominion University.
- Garvey, Joe. “Perry Honors College Dedication Ceremony Held.” *News @ ODU*, 26 Apr. 2019, https://www.odu.edu/news/2019/4/honors_college_dedic_904064686#.X2ozH5NKh_S
- Russell, E., (2019). *Eye-tracking Programming in E-Prime 3 Software for Insight Problem Solving Validity and Reliability Testing* [Unpublished Grant Proposal] Old Dominion University.
- Kelley, Michelle. “Summer 2019 Newsletter” *Undergraduate Research*, Aug. 2019, https://digitalcommons.odu.edu/psychology_newsletters/4
- Russell, E., (2019). *Think Aloud, Self-Reported Ratings, and Eye-tracking for Insight Problem Solving Validity and Reliability Testing* [Unpublished Grant Proposal]. Old Dominion University.

COURSE HIGHLIGHTS

- Honors Human Cognition
- Honors Physiological Psychology
- Supervised Research
- Honors Thesis
- Honors Graduate Statistics Independent Studies
- Honors Eastern Virginia Medical School Apprenticeship
- Quantitative Methodology
- Graduate Human Brain Stimulation
- Honors Literature in Medicine
- Research Methodology
- Sensation and Perception
- Physics in the 21st Century

WORK EXPERIENCE

Administrative Assistant

2018 - 2020

Perry Honors College, Old Dominion University

- Maintaining and streamlining of files, advocating for Honors Education, and acted as a direct assistant for the Dean of Perry Honors College
- Advising students, assisting in correspondence between departments such as the Prestigious Scholarship Coordinator, Dean David Metzger, Program for Undergraduate Research and Scholarships Directors, Administrative Director and Assistant, and Honors College Professors

Owner

2019 - 2020

Bloom Soaps and Balms

- Owner of a small business, selling soaps balms and candles from all-natural metal free ingredients
- Maintenance of online orders, multiple websites and advertising for the store
- Sponsor for local fundraisers including Bark in the Park

Private Tutor

2019 - 2020

Old Dominion University

- Private tutoring for students in 100 and 300 level statistics, including general courses and psychology specific statistics courses
- Tutoring in research methods and quantitative methods in the department

Bartender and Wait Staff

2017 – 2018, 2020

Smalls Smokehouse and Oyster Bar

- ABC Manager for the front of house at the restaurant, and wait staff

AFFILIATIONS

- Delta Alpha Pi Honors Fraternity
- American Psychological Society
- Psi Chi Honors Society
- Perry Honors College
- University Dance Theatre Concert Cast
- Program for Undergraduate Research and Scholarship
- Filipino American Student Association
- Sigma Sigma Sigma Sorority
- LeADERS Program
- University Scholar
- Order of Omega
- Piece of Mind