

Raena N. Nolan

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Education

Arizona State University Phoenix, Arizona PhD in Nursing and Healthcare Innovation Advisor: Dr. Ross Andel, Ph.D.	August 2023- Present
Bournemouth University Dorset, UK M.S. in Clinical and Developmental Neuropsychology	2021-2022
Arizona State University Tempe, Arizona B.S. in Neuroscience B.S. in Psychology	2018-2021
Mesa Community College Mesa, Arizona A.A. in General Studies	2015-2018

Research Experience

Graduate Research Assistant Supervisor: Dr. Ross Andel, Ph.D. Cognitive Aging Lab <ul style="list-style-type: none">● Conducting literature reviews of associated topics● Searching databases for relevant articles● Draft writing sections of the manuscript● Collaborating with supervisor and other co-authors	May 2023- Present
MS Research Project Supervisor: Dr. Hana Burianova, Ph.D. Project: Age-related effects of arousal on memory	2021-2022

Investigating how episodic memory retrieval and arousal correlate within aging differences between younger and older adults

- Data collection online and in the laboratory
- Data handling
- Data analysis with software
- Collaborated with supervisor and other university-affiliated members

Undergraduate Research Assistant

2018- 2021

Behavioral Neuroscience of Memory and Aging Laboratory

Dr. Heather Bimonte-Nelson, Ph.D.

Laboratory dedicated to the study of women's health in correspondence to physiological as well as cognitive changes within aging, developing approaches to investigate age-related changes of varying memory forms via animal models

- Animal handling
- Retracked animal behavior via computer system
- Assisted with experimental tissue collection
- Conducted analysis and discussions of laboratory publications
- Coordinated with lab members to complete group presentations
- General laboratory upkeep

Professional Experience

Psychometrist

May 2024-current

Psychological Pathways

Assist Supervising Psychologist by administering neuropsychological assessments to referred patients.

- Administer various neuropsychological evaluation plans
- Record behavioral observations during patient testing sessions
- Score and record neuropsychological data
- Correspond with Supervising Psychologist and other clinicians

Graduate Teaching Assistant

August 2023-current

Arizona State University

Assisting with teaching services within the Edson College of Nursing and Health Innovation.

- ASU 101 - 5 Sections
- HCR 220 - 2 Sections
- HCR 210 - 1 Section

Dementia Facilitator 2022-2023

Organization: Age UK

Provided cognitive stimulation therapy (CST) for individuals diagnosed with mild-moderate dementia as a form of non-clinical intervention

- Assisted in providing maintenance cognitive stimulation (MCST) to eight individuals over the course of 24-week sessions
- Formulated ideas and designed sessions to actively engage and stimulate participants

Assistant Psychologist 2021-2022

Supervisor: Dr. Birgit Gurr, Clinical Neuropsychologist

Poole Hospital, Stroke Unit- Dorset Healthcare University, NHS Foundation Trust

Assisting Dr. Gurr in providing Neuropsychological services to stroke patients for rehabilitation purposes

- Performed baseline cognitive assessments and/or cognitive stimulation
- Collaborated with other mental health specialists on treatment plans
- Recorded and summarized reports of assessment outcomes, including patient recommendations

Physician's Shadow 2018

Physician: Dr. Damian Berezovsky, M.D.

Gained clinical experience observing neuro-ophthalmologist see patients at Barrow Neurological Institute in Phoenix, Arizona

Student Involvement

ASU Brain Fair 2019

Participated in assisting with Title 1 students for Dr. Bimonte-Nelson's lab to teach students about the brain through hands-on craft activities

ASU Open Door 2019-2020

Volunteered at Brain Station for Dr. Bimonte Nelson's laboratory, held by the Psychology Department at ASU to provide educational activities for children to learn and engage in science

ASU Swift Club 2019

Volunteered at Psychology station, conducting activities to educate children about the brain at a local Boys and Girls Club

Western Alliance to Expand Student Opportunities (WAESO) Involvement 2020-2021

A program designed to broaden involvement of underrepresented students in STEM research

WAESO Lab Presentation 2020

Led and organized WAESO lab presentation with lab members

WAESO Student Conference 2020-2021

Attended presentations and student research posters, presented research poster based on literature review

International Student Ambassador 2021-2022

Provide support to prospective students at BU through open days and webinars

Professional Affiliations

Psi Beta Member, Honors Psychology Society 2016-current

Barrow Neurological Symposium 2019

Attended research presentations

Alzheimer's Association Symposia 2021-2022

Attended pathology-focused research presentations

American Association of Science (AAAS) member September 2023-current

Publications

Jurasova, V., Andel, R., Katonova, A., **Nolan, R.**, Lacinova, Z., Kolarova, T., Matoska, V., Vyhnalek, M., & Hort, J. (2024). Is KIBRA polymorphism associated with memory performance and cognitive impairment in Alzheimer's disease?. *Journal of Alzheimer's Disease*, 102:1, 218-227. doi:[10.1177/13872877241284313](https://doi.org/10.1177/13872877241284313)

Research Interests

- Early Indicators of Alzheimer's Disease
- Transition in cognitive health to atypical aging
- Non-pharmacological interventions to prevent and/or delay cognitive decline
- Cognitive assessments and/or cognitive stimulation for preventive measures