

Donna J. Bridge, Ph.D.

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GOAL

My primary goal is to leverage my 10+ years of experience in research to join a team that utilizes data to design high-quality, innovative solutions to problems. I thrive in a team-oriented environment that values analytical and creative problem solving from individuals with diverse skillsets. My comprehensive research background shows that I am adaptive to new approaches, environments, and ways of thinking, and that I am able to quickly synthesize complex knowledge and follow threads in data to test novel hypotheses. I am an expert at balancing low-level details with overarching project goals.

EXPERIENCE

RESEARCH ASSISTANT PROFESSOR

NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE
2015 - PRESENT

COGNITIVE NEUROSCIENTIST

NORTHWESTERN UNIVERSITY
2007 - PRESENT

Accomplishments

- Developed independent line of research
- 10+ peer-reviewed publications
- 40+ conference presentations
- Awarded 2 NIH grants totaling in > \$1 million in the past 2 years
- Fully self-funded for 10 years (9 grants)

Human Subjects Research

- Conducted and ran 30+ studies with 500+ in-person participants
- Created and adapted interactive memory tasks for specific populations

Innovation

- Pioneered approach to simultaneously obtain data with 3+ techniques linking human behavior, eye movements, and brain recordings
- Developed technique to infer memory based on viewing behavior

Team Lead | Mentorship

- Led and managed teams of 3-6 people with diverse levels of skills & experience
- Mentored and trained 5+ students/postdocs

Project + Program Management

- Cut through bureaucracies and navigated political landscapes to fulfill project goals
- Managed and grew project budget
- Managed sensitive data and successfully met grant objectives

Clear Communication

- Oral presentations to specialized audiences and general public
- Conducted interviews with local and national media (NPR, LA Times, CNN, WTTW, Chicago Tonight)

EDUCATION & TRAINING

Postdoctoral Fellow | Cognitive Neuroscience

Northwestern University Feinberg School of Medicine, 2015

Ph.D. | Neuroscience

Northwestern University, 2012

B.A. | Women's Studies & Psychology

Syracuse University, 2006

SKILLS

RESEARCH SPECIALIZATION

- How do memories change?
- How does memory influence behavior?

DATA ANALYSIS

Statistical Hypothesis Testing

- t-test, ANOVA, non-parametric, Monte Carlo methods
- Data wrangling: 3D video, discrete events, time series

Feature Engineering

- Finding quantifiable patterns in eye movements, behavior, and neural data

Time Series Analysis & Signal Processing

- Regular & irregular spacing, Fourier transform, wavelet convolution

Data Visualization

- Graphs and technical illustrations (Adobe Illustrator, MATLAB)

PROGRAMMING

Computerized Memory Experiments

- Presentation Neurobehavioral Systems Inc

Integrated Data Pipelines

- For fMRI, EEG, behavior, and eye-tracking data
- MATLAB, FieldTrip, AFNI, EEGLab
- Python + Pandas familiarity

HONORS & AWARDS

- National Research and Service Award (NRSA Fellowship)
- Mechanisms of Aging and Dementia Fellowship
- Human Cognition Fellowship
- Cognitive Science Graduate Fellowship
- Outstanding Research Achievement Award