

Donna J. Bridge, Ph.D.

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GOAL

I aim to leverage my 10+ years of research experience to join a team that utilizes data to design high-quality, innovative solutions. I thrive in a team-oriented environment that values analytical and creative problem solving. My comprehensive background demonstrates 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)

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

SKILLS

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

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