

Donna J. Bridge, Ph.D.

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OBJECTIVE

I aim to join a team-oriented environment that tackles complex challenges using analytic and creative problem-solving

- 10+ years creating high-quality research designs in data-intensive field
- End-to-end project implementation

EXPERIENCE

RESEARCH ASSISTANT PROFESSOR

NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE

2015 - PRESENT

COGNITIVE NEUROSCIENTIST | DATA SCIENTIST

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 (10 grants)

Human Subjects Research

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

Innovation

- Pioneered approach to merge 3+ data sources collected simultaneously
- Developed technique using eye movements to predict memory & brain activity

Team Lead | Mentorship

- Led and managed teams of 3-6 people with diverse skill levels & 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

- Delivered 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)	2014 – 2015
Mechanisms of Aging and Dementia Fellowship	2012 – 2014
Human Cognition Fellowship	2010 – 2012
Cognitive Science Graduate Fellowship	2009 – 2010
Outstanding Research Achievement Award	2006

SKILLS

DATA ANALYSIS

Statistical Hypothesis Testing

- t-test, ANOVA, non-parametric, Monte Carlo methods
- Data wrangling: 3D video, discrete events, time series
- Machine learning: Dimensionality reduction, classification, regression

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, Pandas, Seaborn, Matplotlib)

PROGRAMMING

Computerized Memory Experiments

- Presentation Neurobehavioral Systems Inc.

Integrated Data Pipelines

- fMRI, EEG, behavior, and eye-tracking data
- MATLAB, FieldTrip, AFNI, EEGLab
- Python, Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn

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

