Sara Harader

Arlington, TX
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EDUCATION

The University of Arizona **Tucson, Arizona**
Bachelor of Science in Neuroscience and Cognitive Science May 2025

Hakim Sabzevari University (Formerly known as "Sabzevar Teacher Training University") **Sabzevar, Iran**
Bachelor of Arts in English Language and Literature Feb 2011

WORK EXPERIENCE

The University of Texas at Arlington **Arlington, TX**
Researcher/Lab Manager (Full-time) Oct 2025 – Present
Principal Investigator: Steven Weisberg, Ph.D.

- Facilitate lab business: recruiting participants, organizing and documenting data storage and backups
- Facilitate projects: IRB protocol submissions, managing human subject payments, running experiments
- Develop and maintain documentation, including lab experimental and consent protocols, fMRI administration checklists

RESEARCH EXPERIENCE

University of Arizona, Human Spatial Cognition Lab **Tucson, AZ**
Research Technician, Research Assistant, UBRP Scholar (Full-time),
Senior Capstone Project Jan 2024 – Aug 2025
Principal Investigator: Arne Ekstrom, Ph.D.

- Designed and implemented a novel experimental protocol to investigate the effect of crossing paths on human path integration using Unity Game Engine.
- Recruited and scheduled research participants.
- Conducted data acquisition, preprocessing, and statistical analyses, including heading direction error, episodic memory richness, and eye-tracking data (MATLAB).
- Scored neuropsychological test batteries.
- Applied the Levine Grading Method to assess memory during spatial navigation in desktop VR.
- Collaborated with lab members to support multiple studies.
- Manuscript in preparation based on capstone project investigating the effect of crossing trajectories on path integration.

Research Project
PSYS 404: Spatial Navigation, University of Arizona **Tucson, AZ**
Independent Class Project Jan 2024 – Apr 2024

- Developed a novel experiment (backward vs. forward walking) to investigate path integration in humans.
- Acquired and analyzed data and presented the results to faculty and peers.

MANUSCRIPTS

Harader S.A., Vishwanath, A., Gin, M.K., Watson M.F., Wilson, R.C., Ekstrom A.D. Angular Path Integration Across Different Intersecting Circular Path Configurations. Manuscript in preparation.

PRESENTATIONS

Harader S.A., Vishwanath, A., Gin, M.K., Watson M.F., Ekstrom A.D. (2025, May). What Happens When We Cross Our Path. University of Arizona Neuroscience Poster Forum. **Tucson, Arizona**

Harader S.A., Watson M.F., Gin, M.K., Ekstrom A.D. (2025, Jan). What Happens When We Cross Our Path. Undergraduate Biology Research Program Conference. **Tucson, Arizona**

SKILLS

Programming: Experience in C++, beginner in MATLAB, Python
Software: First experiences with Unity Game Engine, Adobe Photoshop, Adobe Illustrator, MS Office
Languages: Persian (native), English (C2)