

Eric Hodgson: Curriculum Vitae

Psychology | Interactive Media Studies
Miami University
Oxford, OH 45056
eric.hodgson@muohio.edu
<http://www.users.muohio.edu/hodgsoep>

Research Interests

Specific to Cognitive Psychology: Human spatial ability; spatial cognition, spatial perception, and spatial memory; navigation, wayfinding, landmark use, and reference frames;

Multidisciplinary: applied virtual reality simulation and training; motion tracking, motion capture and animation; immersive user interfaces, human-computer-interaction, and human factors issues in virtual reality;

Teaching Interests

Specific to Cognitive Psychology: Spatial cognition, cognition, memory, perception, statistics, research methods, virtual reality as a research tool, computer programming for psychologists, human factors

Multidisciplinary: 3D modeling and animation, motion capture, human-computer interaction, artistic and non-photorealistic rendering, virtual reality, data visualization

Professional Experience

2008 May – Present: Postdoctoral Fellow at Miami University, coordinating interdisciplinary research efforts in the HIVE (Huge Immersive Virtual Environment)

2003 – 2008: Various graduate assistantships investigating spatial cognition in the Spacelab and HIVE (Huge Immersive Virtual Environment) at Miami University

2008: Webmaster and member of organizing committee for the Hoosier Mental Life conference

2006 Fall: Instructor for Research Methods laboratory course

2005 Summer: Assistantship to help install and establish the HIVE (Huge Immersive Virtual Environment) laboratory at Miami University

2005: Webmaster and member of organizing committee for the Hoosier Mental Life conference

2004 Fall: Teaching assistant in Statistics; Instructor in Statistics laboratory course

Education

2008 – present: Postdoctoral Fellowship at Miami University, Oxford, OH.

2008 - PhD in Cognitive Psychology from Miami University, Oxford, OH. Advisor: Prof. David Waller.

2005 - MA in Psychology from Miami University, Oxford, OH

2003 - BA in Psychology (Summa Cum Laude; Minor in Art with an emphasis in Graphic Design) from Malone College, Canton, OH

Academic Honors & Awards

2007-2008: Dissertation Scholar for the Department of Psychology, Miami University, Oxford, OH

2007: Recipient of Graduate School Dissertation Research Support Grant

2007: Patrick J. Capretta Memorial Scholarship for Research Excellence, Psychology Department, Miami University, Oxford, OH

2006: Graduate Student Achievement Award from Miami University

2005: Letter of Commendation from the Psychology Department, Miami University, Oxford, OH
2004: Letter of Commendation from the Psychology Department, Miami University, Oxford, OH
2003: Who's who Among College and University Students, Malone College; Canton, OH
2003: Outstanding Senior Award in Psychology; Malone College, Canton, OH
1999-2003: Dean's List; Malone College, Canton, OH
1999: Valedictorian, Salem High School, Salem, OH

Publications

- Hodgson, E., Bachmann, E., & Waller, D. (submitted). Redirected walking in the wild: Steering real users during unconstrained navigation.
- Friedman, A., Waller, D., Greenauer, N., & Hodgson, E. (submitted). View combination: A generalization mechanism for visual recognition of objects, scenes, and two-dimensional visual arrays.
- Waller, D., Friedman, A., Hodgson, E. & Greenauer, N. (2009). Learning scenes from multiple views: Novel views can be recognized more efficiently than learned views. *Memory & Cognition*, 37, 90-99.
- Waller, D., Bachmann, E., Hodgson, E., & Beall, A. C. (2007). The HIVE: A huge immersive virtual environment for research in spatial cognition. *Behavior Research Methods*, 39, 835-843.
- Hodgson, E., & Waller, D. (2006). Lack of set size effects in spatial updating: Evidence for offline updating. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 32, 854-866.
- Waller, D., & Hodgson, E. (2006). Transient and enduring spatial representations under disorientation and self-rotation. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 32, 867-882.
- Hodgson, E. (2005). *Spatial updating and set size: evidence for long-term memory reconstruction*. Unpublished master's thesis, Miami University, Oxford, OH, USA.

Manuscripts in Preparation

- Hodgson, E. (2009). *The capacity limit of online spatial updating*. Manuscript in preparation.
- Hodgson, E. (2009). *The interaction of transient and enduring spatial representations: Using visual cues to maintain perceptual engagement*. Manuscript in preparation.

Invited Talks & Presentations

- Hodgson, E., Waller, D., Greenauer, N., & Mello, C. (2008, November). Remaining oriented with abstract or intermittent visual information. Poster session presented at the annual meeting of the Psychonomic Society, Chicato, IL, USA.
- Hodgson, E. & Waller, D. (2007, November). Capacity limits of spatial updating: Online and offline updating. Poster session presented at the annual meeting of the Psychonomic Society, Long Beach, CA, USA.
- Hodgson, E. & Waller, D. (2006). Set size effects in spatial updating: Online and offline updating. Paper presented at the annual meeting of Hoosier Mental Life, Bloomington, IN, USA.
- Waller, D. & Hodgson, E. (2005). Human spatial representation: Egocentric Updating and Cognitive Maps. Paper presented at the annual meeting of the Psychonomic Society, Toronto, Ontario, Canada.
- 2004 – 2008: Five talks and poster presentations at Psychology department cognitive lecture series, Miami University, Oxford, OH

2005, Nov.: Guest speaker for the Department of Psychology's Alumni Chapel at Malone College, Canton, OH
Hodgson, E. & Waller, D. (2004, November). Capacity limits in spatial updating. Poster session presented at the annual meeting of the Psychonomic Society, Minneapolis, MN, USA.
2002, Dec.: "Memory and Learning." Guest speaker for 7th and 8th grade language arts classes at United Junior High School, Salem, OH.

Service

2003 – Present: Volunteer work for the Angel Tree organization (provides Christmas presents to children of incarcerated parents), Butler County, OH
2003-2005: Judge for Ross High School's fall and spring science fairs, Ross, OH
2001-2003: Governing board of the Malone College Psychology Club, Malone College, Canton, OH
2002: Volunteer work for Habitat for Humanity (construction), Canton, OH

Affiliations & Professional Development

2008 – Present: Psychonomic Society
2006 – 2008: American Psychological Association
2004 – 2008: Association for Psychological Science (formerly the American Psychological Society)
2003, Nov.: 23rd Annual Lilly Conference on College Teaching, Oxford, OH.

References

David Waller, PhD
Associate Professor of Psychology
Miami University
Department of Psychology
90 N. Patterson
Oxford, OH 45056
wallerda@muohio.edu
(513) 529-4929

Eric Bachmann, PhD
Associate Professor of Computer Science
Miami University
Department of Computer Science and Systems Analysis
Benton Hall
Oxford, OH 45056
bachmaer@muohio.edu
(513) 529-0786

Michele Dickey, PhD
Associate Professor of Educational Psychology
Miami University
Department of Educational Psychology | Interactive Media Studies Program
McGuffey Hall
Oxford OH 45056
dickeymd@muohio.edu
(513) 529-3741

Murali Paranandi
Associate Professor of Architecture
Miami University
Department of Architecture and Interior Design
Alumni Hall
Oxford, OH 45056
murali.paranandi@muohio.edu
(513) 529-7086