

# Daniele Nardi

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## Education

2008	<b>Ph.D., Psychology</b> Bowling Green State University   Bowling Green, OH
2004	<b>M.S., Biological Sciences</b> Scuola Normale Superiore   Pisa, Italy
2001	<b>B.S., Biological Sciences</b> University of Pisa   Pisa, Italy

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## Employment

2014 -	Eastern Illinois University   Psychology Department   Charleston, IL <b>Assistant Professor</b>
2011-2014	Sapienza University of Rome   Psychology Department   Rome, Italy <b>Postdoctoral Research Fellow</b> Supported by Marie Curie International Grant
2011-2014	John Cabot University   Psychology Department   Rome, Italy <b>Adjunct Faculty</b>
2008-2011	Temple University   Psychology Department   Philadelphia, PA <b>Postdoctoral Research Fellow</b> Spatial Intelligence and Learning Center

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## Peer-reviewed Publications

- Hammond, A.G.\*, & Nardi, D. (in prep). Context-dependent memory produced by physical activity and physical effort.
- Nardi, D., Johnston, J.R.\*, & Guenther, B.A. (under review). Sex difference in a non-visual spatial reorientation task.
- Ganczarek, J.\*, Ruggieri, V., Nardi, D., & Olivetti-Belardinelli, M. (2015). Intersection of Reality and Fiction in Art Perception: Pictorial Space, Body Sway and Mental Imagery. *Cognitive Processing*, 16, 233-236
- Nardi, D., Holmes, C.A., Newcombe, N.S., & Weisberg, S.M. (2015). Sex Differences and Errors in the Use of Terrain Slope for Reorientation. *Cognitive Processing*, 16, 323-326
- Holmes, C.A., Nardi, D., Newcombe, N.S., & Weisberg, S.M. (2015). Children's Use of Slope to Guide Navigation: Sex Differences Relate to Spontaneous Slope Perception. *Spatial Cognition & Computation*, 15, 170-185

- Ganczarek, J.\*, Ruggieri, V., Nardi, D., & Olivetti-Belardinelli, M. (2014). Interaction of perception and imagination in pictorial space experience. In A. Scarinzi (Ed.), *Embodied Aesthetics: Proceedings of the 1st International Conference on Aesthetics and the Embodied Mind, 26th–28th August 2013* (pp. 38-58). Leiden, Netherlands: Brill Academic Publishers. doi: 10.1163/9789004281516
- Nardi, D., Meloni, R.\*, Orlandi, M., & Olivetti-Belardinelli, M. (2014). Where is uphill? Sex differences reorienting on a sloped environment presented through 2D images. *Perception*, 43, 249-264
- Weisberg, S. M., Nardi, D., Newcombe, N.S., & Shipley, T.F. (2014). Up by Upwest: Is Slope like North? *Quarterly Journal of Experimental Psychology*, 67, 1959-1976.
- Nardi, D., & Bingman, V.P. (2013). Making a stronger case for comparative research to investigate the behavioral and neurological bases of 3D navigation. *Behavioral and Brain Sciences*, 36, 557-558. doi: 10.1017/S0140525X13000472
- Schinazi, V.R., Nardi, D., Newcombe, N.S., Shipley, T.F., & Epstein, R.A. (2013). Hippocampal size predicts rapid learning of a cognitive map in humans. *Hippocampus*, 23, 515-528.
- Twyman, A.D., Nardi, D., Newcombe, N.S. (2013). Two fields are better than one: Developmental and comparative cognition perspectives on understanding spatial reorientation. *Comparative Cognition & Behavior Reviews*, 8, 78-97.
- Nardi, D., Newcombe, N.S., & Shipley, T.F. (2013). Reorienting with terrain slope and landmarks. *Memory & Cognition*, 41, 214-228.
- Nardi, D. (2012). Does terrain slope really dominate goal searching? *Cognitive Processing*, 13, 281-284.
- Nardi, D., Mauch, R.J.\*, Klimas, D.B., & Bingman, V.P. (2012). Use of Slope and Feature Cues in Pigeon Goal Searching Behavior. *Journal of Comparative Psychology*, 126, 288-293.
- Nardi, D., Newcombe, N.S., & Shipley, T.F. (2011). The world is not flat: Can people reorient using slope? *Journal of Experimental Psychology: Learning, Memory and Cognition*, 37, 354-367.
- Nardi, D., Nitsch, K.P.\*, & Bingman, V.P. (2010). Slope-Driven Goal Location Behavior in Pigeons. *Journal of Experimental Psychology: Animal Behavior Processes*, 36, 430-442.
- Nardi, D., Newcombe, N.S., & Shipley, T.F. (2010). The Role of Slope in Human Reorientation. *Proceedings of the International Conference Spatial Cognition 2010, Mt. Hood, Portland, OR, August 2010*.
- Nardi, D., & Bingman, V.P. (2009). Slope-based Encoding of a Goal Location is Unaffected by Hippocampal Lesions in Homing Pigeons (*Columba livia*). *Behavioural Brain Research*, 205, 322-326.
- Nardi, D., Funk, A.Y.\*, Newcombe, N.S., & Shipley, T.S. (2009). Reorientation by Slope Cues in Humans. *Cognitive Processing*, 10, 260-262.

- Nardi, D., & Bingman, V.P. (2009). Pigeon (*Columba livia*) Encoding of a Goal Location: The Relative Importance of Shape Geometry and Slope Information. *Journal of Comparative Psychology*, 123, 204-216.
- Nardi, D., & Bingman, V.P. (2007). Asymmetrical participation of the left and right hippocampus for representing environmental geometry in homing pigeons. *Behavioural Brain Research*, 178, 160-171.
- Gagliardo, A., Vallortigara, G., Nardi, D., & Bingman, V.P. (2005). A lateralized avian hippocampus: Preferential role of the left hippocampal formation in homing pigeon sun compass-based spatial learning. *European Journal of Neuroscience*, 22, 2549-2559.

\*Supervised student

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## Teaching Experience

Cognitive Neuroscience  
Culture & Psychology  
Research Methods and Experimental Design  
General Psychology  
Introduction to Neuroscience  
Cognitive Psychology  
Neuroscience of Development and Aging

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## Research Interests

Perception and memory in the domain of space  
Neurological substrates of spatial representations  
Diversity, individual, and sex differences  
Proprioceptive-based spatial thinking  
Age-related changes in spatial cognition

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## Grants | Awards

2017	Ford Motor Company Community Grant   Principal Investigator (Submitted)
2017	Summer Research and Creative Activity Award   Eastern Illinois University (Submitted)
2015	Early Research Support Grant   Eastern Illinois University
2011-2014	European Commission Marie Curie Grant   Principal Investigator   FP-PEOPLE-2010-RG   Project # 276798
2007-2008	Dissertation Fellowship Award   Bowling Green State University
2005-2007	Doctoral Scholarship Award   Bank of Italy

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## Service | University and Department

Neuroscience Major Departmental Committee, Chair, 2016 -  
Research Participation Program Departmental Committee, Member and Chair, 2014 -  
Online Psychology B.A. Committee, Member, 2016 -  
Technology/Equipment Departmental Committee, Member, 2014 -  
IACUC, Member, 2015 -  
International Education Council, Member, 2014 -  
Student Fee Apportionment Board, Member, 2015 - 2016  
Psychology Doctoral Program Committee, Member (Sapienza University), 2012-2014

### **Service | Editorial activity**

Consulting Editor for *Cognitive Processing*, 2016 -  
Ad-Hoc Reviewer for: *JEP:LMC*, *Memory & Cognition*, *Quarterly Journal of Experimental Psychology*, *Journal of Comparative Psychology*  
Co-editor of special issue of *Cognitive Processing*, vol.13, August 2012.

### **Service | Scientific meetings**

Scientific committee member: 6<sup>th</sup> *International Conference on Spatial Cognition, Rome, Italy, 7-11 September 2015*.  
Symposium Convenor "Perception and Representation of Vertical Spaces": *International Conference on Spatial Cognition, Rome, Italy, 4-9 September 2012*.  
Symposium Convenor "How Vertical Spaces Are Perceived and Represented": *Cognitive Science Society annual Meeting, Sapporo, Japan, 1-4 August 2012*.  
Scientific committee member: 5<sup>th</sup> *International Conference on Spatial Cognition, Rome, Italy, 4-8 September 2012*.  
Organizer and Chair of the Doctoral Colloquium: *Spatial Cognition International Conference, Mt. Hood, Portland, OR, 15-19 August 2010*.

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### **Professional Membership**

Psychonomics Society, Member  
ECoNA Inter-university Center for Research and Services, Member  
Midwestern Psychological Associations, Member

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### **Conference Presentations | Invited talks**

Nardi, D., & Johnston, J.R.\* (2017, April). Sex difference in non-visual spatial reorientation. 89<sup>th</sup> *Annual Meeting of the Midwestern Psychological Association, Chicago, IL*.  
Ganczarek, J., Nardi, D., & Olivetti-Belardinelli, M. (2016, December). Am I here or there? Space and action in aesthetic experience. *A Body of Knowledge: Embodied Cognition and the Arts Conference, Irvine, CA*.  
Nardi, D., Johnston, J.R.\*, & Guenther, B.A. (2016, November). Exploring the role of effort and sex in non-visual location memory. *Psychonomic Society, Boston, MA*.  
Nardi, D. (2016, June). Exploring the role of effort and sex in non-visual location memory. *Invited speaker, Sapienza University of Rome, Rome, Italy*.

- Ganczarek, J. \*, Ruggieri, V., Olivetti-Belardinelli, M., & Nardi, D. (2015, September). Intersection of reality and fiction in art perception. *6<sup>th</sup> International Conference on Spatial Cognition: Space and Situated Cognition, Rome, Italy.*
- Nardi, D., Holmes, C.A., Newcombe, N.S., & Weisberg, S.M. (2015, September). More on the ability to use slope for navigation: evidence from children. *6<sup>th</sup> International Conference on Spatial Cognition: Space and Situated Cognition, Rome, Italy.*
- Nardi, D., Meloni, R. \*, & Olivetti-Belardinelli, M. (2013, August). Where is uphill? The contribution of visual cues for slope detection in 2D images. *European Society for Cognitive Psychology conference, Budapest, Hungary.*
- Ganczarek, J. \*, Ruggieri, V., Olivetti-Belardinelli, M., & Nardi, D. (2013, August). Interaction of perception and imagination in pictorial space experience. *1<sup>st</sup> International Conference on Aesthetics and The Embodied Mind, Delmenhorst, Germany.*
- Holmes, C.A., Newcombe, N.S., Weisberg, S.M., & Nardi, D. (2013, April). Hitting the Slopes: Children's Use of Gradient Cues in Reorientation. *Society for Research in Child Development Biennial Meeting, Seattle, WA.*
- Weisberg, S.M., Nardi, D., Newcombe, N.S. & Shipley, T.F. (2012, November). Sensing the slopes: Sensory modality effects on a goal location task. *Psychonomic Society, Minneapolis, MN.*
- Nardi, D. (2012, September). Does terrain slope really dominate goal searching behavior? *5<sup>th</sup> International Conference on Spatial Cognition: Space and Embodied Cognition, Rome, Italy.*
- Nardi, D., Newcombe, N.S., & Shipley, T.F. (2012, August). Representing vertical spaces: a case of sex differences in spatial abilities. *Cognitive Science Society Annual Conference, Sapporo, Japan.*
- Nardi, D., Newcombe, N.S., & Shipley, T.F. (2011, May). Individual Differences in Reorientation. *Association for Psychological Science Annual Convention, Washington, DC.*
- Nardi, D. (2011, January). The World Is Not Flat: How Space Is Represented on Sloped Surfaces. *Invited speaker, The University of Chicago, Chicago, IL.*
- Nardi, D. (2011, January). The World Is Not Flat: How Space Is Represented on Sloped Surfaces. *Invited speaker, Northwestern University, Evanston, IL.*
- Nardi, D., Newcombe, N.S., & Shipley, T.F. (2010, August). The Role of Slope in Human Reorientation. *Spatial Cognition International Conference, Mt. Hood, Portland, OR.*
- Nardi, D. (2010, March). The World Is Not Flat: How Space Is Represented on Sloped Surfaces. *Invited speaker, BGSU, Bowling Green, OH.*
- Schinazi, V.R., Epstein, R.A., Nardi, D., Newcombe, N.S., & Shipley, T.F. (2009, November). The acquisition of spatial knowledge in an unfamiliar campus environment. *Psychonomic Society, Boston, MA.*

- Nardi, D., Funk, A.Y.\*, Newcombe, N.S., & Shipley, T.F. (2009, September). Reorientation by Slope Cues in Humans. *4<sup>th</sup> International Conference on Spatial Cognition, Rome, Italy.*
- Nardi, D., Funk, A.Y.\*, Newcombe, N. S., & Shipley, T.F. (2009, May). Reorientation by Slope Cues in Humans. *Conference of the International Mind, Brain and Education Society, Philadelphia, PA.*
- Nardi, D., Funk, A.Y.\*, Newcombe, N.S., & Shipley, T.F. (2009, April). Reorientation by Slope Cues in Humans. *NSF Annual Site Visit for the Spatial Intelligence and Learning Center (SILC), Philadelphia, PA.*
- Nardi, D., Newcombe, N.S., & Shipley, T.F. (2009, February). The Salience of Slope Information for Goal Location. *Second Annual Inter-Science of Learning Center Student and Post-Doc Conference, Seattle, WA.*
- Nardi, D., & Bingman, V. P. (2008, November). The relationship between geometric shape and slope for the representation of a goal location in pigeons (*Columba livia*). *Spatial Learning in Geography Workshop, National Geographic Society, Washington, D.C.*
- Nardi, D., & Bingman, V. P. (2008, March). Pigeon encoding of a goal location: The relative importance of boundary geometry and the vertical dimension of slope. *Annual International Conference on Comparative Cognition, Melbourne Beach, FL.*
- Nardi, D., & Bingman, V.P. (2007, November). How pigeons encode geometry on a slope. *Poster session presented at the Bowling Green State University Research Conference, Bowling Green, OH.*
- Bingman, V.P., & Nardi, D. (2006, March). The avian hippocampus: space or spatial salience? *Annual International Conference on Comparative Cognition, Melbourne Beach, FL.*
- Nardi, D., Benvenuti, S., & Dall'Antonia, L. (2004, September). Foraging strategies of seabirds studied with data-logger. *National Meeting of the Italian Society of Ethology (SIE), Padova, Italy.*

\*Supervised student

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### **Undergraduate Student Sponsored Presentations | last 2 years**

- Johnston, J.R. (2016, May). The Role of Effort in Spatial Learning: Evidence from a Non-visual Task. *88<sup>th</sup> Annual Meeting of the Midwestern Psychological Association, Chicago, IL.*
- Johnston, J.R. (2016, April). Sex differences in a non-visual object location memory task. *35<sup>th</sup> Annual Mid-America Undergraduate Psychology Research Conference, Richmond, IN.*
- Duffle, E., & Klein, J. (2016, April). An Eye-Tracking Approach to Studying the Body-Specificity Hypothesis. *35<sup>th</sup> Annual Mid-America Undergraduate Psychology Research Conference, Richmond, IN.*
- Johnston, J.R. (2016, April). Sex differences in a non-visual object location memory task. *Undergraduate Research Conference, Indianapolis, IN.*

Farris, A.M., & Sven, M.T. (2015, April). Perception of Space in Computer Images. *34th Annual Mid-America Undergraduate Psychology Research Conference, Franklin, IN.*

Johnston, J.R. (2015, April). Testing the Action-Specific Hypothesis Against Slope and Auditory Cues: Which Cue Will Prove to be More Salient During Reorientation? *34th Annual Mid-America Undergraduate Psychology Research Conference, Franklin, IN.*

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