

Laura A. Carlson

CURRICULUM VITA

Personal Information

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Educational History

- 1987 Dartmouth College, A. B., cum laude, Special Major: Psychology of Language
- 1991 Michigan State University, M.A.
- 1994 University of Illinois, Urbana-Champaign, Ph.D.

Positions

Academic

- 2008 – present Professor of Psychology, University of Notre Dame
- 1999 – 2008 Associate Professor of Psychology, University of Notre Dame
- 1994 - 1999 Assistant Professor of Psychology, University of Notre Dame

Administrative

- 2013 – present Vice President, Associate Provost, and Dean of the Graduate School, University of Notre Dame
- 2009 – 2013 Associate Dean of Professional Development, The Graduate School, University of Notre Dame
- 2007 – 2009 Associate Chair, Psychology, University of Notre Dame
- 2001 – 2005 Director of Graduate Studies, Psychology, University of Notre Dame

Professional

- 2019 – 2021 Council of Graduate Schools PhD Career Pathways Deans Leadership Group
- 2019 - 2021 Founding member, Guarini School Board of Advisors, Guarini School of Graduate and Advanced Studies, Dartmouth College
- 2018 – 2020 Chair, Governing Board, Psychonomic Society:
Chair-Elect, 2018; Chair, 2019; Past-Chair, 2020
- 2016 - 2021 Elected member, Governing Board, Psychonomic Society
- 2011 - 2016 Elected member, Governing Board, The Cognitive Science Society
- 2011 Program Co-Chair, Annual Meeting of the Cognitive Science Society
- 2008 – 2010 Secretary-Treasurer, Psychonomic Society
- 2006 – 2008 Program Committee, Midwestern Psychological Association
- 2005 – 2010 Local Representative, Midwestern Psychological Association

Editorial

- 2012 – present Editorial Board member for *Journal of Experimental Psychology: Learning, Memory and Cognition*; and *Attention, Perception, & Psychophysics*
- 2011 – 2014 Associate Editor, *Cognitive Psychology*
- 2010 Guest Editor (with Nora Newcombe and James Hoffman), Special Section

- entitled “Spatial reference frames: Integrating Cognitive, Behavioral, and Cognitive Neuroscience Approaches,” *Journal of Experimental Psychology: Learning, Memory and Cognition*
- 2008 - 2012 Associate Editor, *Journal of Experimental Psychology: Learning, Memory and Cognition*
- 2005 - 2008 Associate Editor, *Memory & Cognition*

Ad hoc Reviewer (sample): *Acta Psychologica, Cognitive Psychology; Cognition; Environment and Behavior; Journal of Cognitive Science; Journal of Cognitive Neuroscience; Psychological Science; Spatial Cognition and Computation; Journal of Experimental Psychology: Animal Behavioral Processes; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: General; Memory & Cognition; Psychology and Aging; Journal of Pragmatics; Psychonomic Bulletin and Review*

Evaluative

- 2018 External Reviewer, Departmental Review
- 2014 - present External Reviewer, Tenure and Promotion Cases
- 2005 - 2008 Consultant in Spatial Cognition, Sandia National Labs
- 2011 National Science Foundation, Graduate Research Fellowship Panel
- 2009 National Science Foundation, Cross-Directorate Review Panel (CDI)
- 2005 National Science Foundation, Cross-Directorate Review Panel
- 2001 National Science Foundation, SBE Advance Grant Review Panel
- 1999 - 2000 National Science Foundation SBE POWRE Grant Review Panel

Accomplishments as Associate Provost

Diversity and Inclusion

Awarded Funding:

- Supporting Diverse Applicants: NSF GRFP Bootcamp at the Compact for Faculty Diversity's Institute on Teaching and Mentoring. Grad School Team: Lead PI, Assoc. Dean Nyree McDonald. National Science Foundation. \$143,532.
- Empowering Women Leaders in STEM. Grad School Team: Lead PI, Samantha Lee. American Association for University Women, \$5498

Chair, Working Group on Service

- Conducted an analysis of service – how it is defined by departments, reported by faculty, evaluated and compensated
- Proposed guidelines to create threshold level of required service
- Developed a service planning tool for use by department chairs and faculty members
- Clarified role of service for promotion and tenure

Faculty Experience Survey

- Carried out recommendations from the Blue Ribbon Report presenting the findings of the Faculty Experience Survey in 2013.
 - o Focus groups with female faculty
 - o Examination of committee assignment process
 - o Examination of faculty governance
 - o Focus group with long term associates
 - Development and implementation of ND Boost
 - o Focus group with newly associates
 - Development of Newly Associate Network

- Grant proposal submitted to Lilly Foundation
 - Information sessions on promotion process to chairs, candidates, evaluators
- Led the revision team for the next iteration of the survey
 - Consultation with the Faculty Governance Committee and University Committee for Women Faculty and faculty at large
 - Addition of new questions emerging from the first iteration
 - Improve survey structure and clarity
 - Revising of questions that were ambiguous or misleading
- Currently serving on the committee to analyze and report results from the 2019 survey

Founder, Office of Military and Veteran Affairs

- Designed, proposed and developed the office to offer stronger infrastructure support and recruit larger number of military-connected students.
- Initiated Storm the Stadium event in support of financial aid for military-connected students, receiving more than \$180,000 in support with over 4000 participants in the first two years.

Committee Membership

- Member, President's Committee on Diversity and Inclusion, Notre Dame
- Member, Steering Committee for THRIVE, Supporting Women at Notre Dame
- Member, Steering Committee, Women in Cognitive Science (WICS), a professional society and affiliate of the Psychonomic Society
- Diversity and Inclusion Committee, Psychonomic Society

Faculty Leadership Development

- Designer/Director for ND Lead, Notre Dame Faculty Development Program
- Designer/Director for ND Boost, a program for Associate Professors seeking promotion to Full.
- Vice-Chair, Steering Committee for the ACC Leadership Network, a cross-institution leadership program. Roles included design of program, securing funding from the ACC provosts, and implementing program in year 1 (2018-2019, including hosting at Notre Dame in May 2019)
- Designer/Director for Newly Associate Network;
 - External proposal submitted to Lilly Foundation for support

Committee Leadership

- Secretary, Provost Advisory Committee:
 - Deliberate and vote on all tenure and promotion cases across the university
 - Oversee the reappointment, promotion and tenure process for all tenure/tenure-track faculty
- Secretary, Academic Council:
 - Creation/revision/deletion of academic programs;
 - Academic articles revision;
 - University policy creation and revision
- Additional Committee Assignments (partial list): *President's Leadership Council; Dean's Council; Provost Cabinet; ND National Security Working Group; California Initiative, University Committee on Sponsored Research Programs; Advanced Studies of the Academic Council; Executive Committee of the Academic Council; Digital Learning Initiatives...*

Accomplishments as Dean of the Graduate School

Innovation in Graduate Training and Student Development

- Planned and executed a strategic cultural shift toward the perception of the Graduate School as a service and resource unit.

- Launched Your Research Matters/You Matter campaign
- Initiated 5 year (2018-2023) strategic plan with measurable objectives around the components of top programs, top students, your research matters, you matter and an inclusive environment. This strategic plan emerged from a SWOT analysis and resulted in a refocus on the integration of professional development and graduate student life, pillars that were the focus of development in my earlier 2013-2018 strategic plan.
- Completed redesign of website, 8/2018 (graduateschool.nd.edu).
- Communicated vision and goals to internal and external constituencies
- Developed and implemented a program scorecard to assess and communicate the strengths and weakness for the doctoral and masters programs across the university.
- Established Grants and Fellowship office (2 fulltime staff and pool of readers) solely for graduate students; Notre Dame ranked 2nd in nation for Fulbright grantees; 4-6M annually in external awards to graduate students; in 2018-19, 313 doctoral students applied for 525 external opportunities (19% of total doctoral student body); over time at Notre Dame, 42% of students have submitted an external grant or fellowships application).
- Established Grad Career Services office (5 full time staff) in partnership with Student Affairs that offers dedicated career discernment and consultation.
- Established Grad Student Life office (1 full time staff) in partnership with Student Affairs that offers services to support all dimensions of wellness (physical, social, emotional, spiritual, intellectual) for graduate student.
- Developed an International Network
- Cultivation of opportunities, dual degrees and MOUs with international institutions
- Development of support programming for graduate students at Notre Dame's Global Gateways
- Development of international travel information for students.
- Facilitator for International Experiences for Graduate Students

External Funding and Benefaction for Graduate Studies

- Deliberative Sessions on Protections for Research Misconduct Whistleblowers (1-ORIR190050-01-00); Office of Research Integrity, Department of Health and Human Services; Project Director: Allan Loup; \$111,496
- Cultivating Foundations for Responsible Innovation (SES-1926280); National Science Foundation; Project Director: Mark Bourgeois; \$295,787
- Cultivating Leaders for Ethical STEM Program (#SES- 1449469); National Science Foundation; Project Director: John Lubker; \$410,340.
- Council of Graduate Schools Career Pathways Project Awardee (funded by National Science Foundation grant #1661272 and Andrew W. Mellon Foundation). Project Director: Laura Carlson, \$80,000.
- Co-chair, Advisory Council for Graduate Studies and Research
- Steward benefaction for graduate fellowships, such as:
 - o Richard and Peggy Notebaert Fellowships (12.02M, grown to 16.8M)
 - o Arthur J. Schmitt Leadership Fellowships (2.57M, grown to 27.6M)
 - o Fernandez Family Kinesis Fellowships (5.7M, grown to 8.5M)
 - o Naughton Fellowships (8.75M, grown to 13.2M)
- Articulate the needs and opportunities that are unique to graduate training
- Advocate for the importance of graduate studies to our institutional mission
- Educate on the importance of graduate student wellness and a holistic training model
- Innovate fundraising opportunities for graduate fellowships and financial aid

- Successfully secured proceeds from the Shamrock Series 5K race that occurs during the Notre Dame Shamrock Series weekend to graduate fellowships
- Conceived, designed and chaired a team to run Storm the Stadium
- Connect graduate training and the concept of “your research matters” to the underlying mission of the University to be a force for good in the world (<https://youtu.be/6DP8sizrqo7w>)

Management and Financial Oversight

- Manage a Graduate School staff of 21 with dotted line responsibility to 6 additional staff
- Oversee and administer the Graduate School budget and operations
 - o Office budget of \$1.8M. (88% labor)
 - o Operations endowment of \$200k per year.
 - o Stipend funding of \$25M
 - o Tuition funding of \$90M
 - o Recruitment and professional development funding distribution to colleges of \$750k
 - o Central control of 125k
- Relocate the Graduate School to Bond Hall, Summer 2019
 - o Orchestrated the move of the Graduate School from the Main Building to its own space on campus in Bond Hall, an important signal of recognition and importance of graduate training at Notre Dame
 - o Designed space for staff offices, meeting rooms, consultation rooms, study space for students
 - o Budget and oversight of renovations, new installations, and furniture
 - o Created Grad Research Room and Dissertation Defense Room

Accomplishments as the inaugural Associate Dean for Professional Development in the Graduate School

- Creator, University-wide Professional Development Program for Graduate Students (annually 100+ events across research, teaching, career and ethics).
- Winner, University Team Irish Award for the Professional Development Team.
- Team formation through influence rather than direct reporting lines, resulting in a cohesive and highly collaborative team represented by 15+ units distributed across the university
- Development of strong partnerships with other units to generate resources
- With Student Affairs for shared lines in Graduate Student Life and Grad Career Services
- With Collegiate Deans for cost-shared lines in Grants and Fellowships and Grad Career Services
- Creation of a strong partnership with the Graduate Student Union, with that body evolving in its focus to professional development from serving as members of the professional development team, to the creation of an ad hoc committee, to the creation of a standing committee, to the creation of a vice president within the GSU for professional development. This reflects a very positive relationship and a successful cultural shift.

Distinctions, Honors & Awards

- 2016 Participant, Academy for Innovative Higher Education Leadership
- 2012 Fellow, Association of Psychological Science (Elected)
- 2011 Member of founding cohort, NDLead
- 2008 Rev. Edmund P. Joyce C.S.C Award for Excellence in Undergraduate Teaching, University of Notre Dame
- 2005 Kaneb Teaching Award, College of Arts and Letters, Notre Dame

- 2002 Kaneb Center Teaching Fellow, University of Notre Dame
2001 Kaneb Teaching Award, College of Arts and Letters, Notre Dame
1994 American Psychological Association Dissertation Award
1987 Benjamin Benner Research Award in Psychology, Dartmouth College
1984 Class of 1846 Latin Prize, Dartmouth College

Professional Memberships

Psychonomic Society, Fellow
Association for Psychological Science, Fellow
Cognitive Science Society, Member

External Funding for Research

- Skubic, M. & Carlson, L. A. Human-Driven Spatial Language for Human-Robot Interaction. National Science Foundation, Information & Intelligent Systems: Human-centered computing program. \$499,008. 9/1/10 - 8/31/13.
Schmiedeler, J. & Carlson, L. A. Differential use of egocentric and allocentric information in the use of robotic devices using upper limb rehabilitation for stroke patients. ND-PDT, Indiana Clinical and Translational Sciences Institute, NIH RR025761, \$18,388, 9/15/2010-9/14/2011
Carlson-Radvansky, L. A. Interpreting Spatial Relations. National Science Foundation, SBR 52,1889727638, \$179,856. 1998-2001.
Carlson-Radvansky, L. A., Radvansky, G. A. & Gibson, B. S., Acquisition of a Dual Purkinje Image Eye Tracker for Use in Cognitive Psychology. National Science Foundation, 9602477, 9/1/1996 – 8/31/1997.

Undergraduate Research Funding

Undergraduate Research Opportunity Program

Kevin Mickey

Kevin Kimberly

Learning Beyond the Classroom Grant

Greg Davis, Jeremy Hillyard, Kevin Kimberly, Jared Miller to attend the Spatial Cognition Conference in Freiburg, Germany (lab)

Meaghan Jennings, Beck Roan, Amanda Spiegelberg, Matt Grosso, Gabrielle Michalak to attend the Green Festival in San Francisco (Deciding to be Green Class)

Postdocs Directed

Ben Nelligan, Ph.D.

Deanne Adams, Ph.D.

Holger Schultheis, Ph.D.

Xiaou Li, Ph.D.

Aaron Ashley, Ph.D.

Graduate Students Directed

Jared Miller, Ph.D.

Jennifer Kolesari, Ph.D.

Jose Lugo, Ph.D., co-director

Chris Galuceia, M.A.

Edwin Covell, M.A.
Patrick Hill, M. A.
Shannon van Deman, M.A.
Eric Covey, M.A.

Psychology Undergraduate Honors Theses Directed

Alexandra Amorati
Corinne Swearingen
Kevin Kimberly
Kevin Mickey
Ashley Herrmann

Books

Carlson, L. A. & van der Zee, E (Eds). (2005). Functional features in language and space: Insights from perception, categorization and development. Oxford University Press.

Refereed Publications (*designates graduate student/postdoc; † designates undergraduate)

Interdisciplinary Research

- *Lugo J, Schmiedeler J, Batill S, Carlson L. (2016). Relationship Between Product Aesthetic Subject Preference and Quantified Gestalt Principles in Automobile Wheel Rims. *Journal of Mechanical Design*, 138 (5), 051101.
- *Lugo, JE, Schmiedeler, J.P., Batill, S. M., & Carlson, L. A. (2015). Quantification of Classical Gestalt Principles in Two-Dimensional Product Representations. *Journal of Mechanical Design*, 137(9), 094502.
- Carlson, L. A., Skubic, M., *Miller, J., Huo, Z., & Alexenko, T. (2014). Strategies for human-driven robot comprehension of spatial descriptions by older adults in a robot fetch task. *Topics in Cognitive Science*, 6 (3), 513-533.
- Carlson, L. A., Skubic, M., Miller, J., Huo, Z., & Alexenko, T. (2013). Assessing the effectiveness of older adults' spatial descriptions in a fetch task. *Proceedings of the Cognitive Science Society*, Annual Meeting, Berlin, (2013/7).
- Carlson, L. A., Hoffman, J., & Newcombe, N. (2010). Introduction to the Special Section on Spatial Reference Frames: Examining what and how information is encoded through the integration of cognitive, behavioral, and neuroscience approaches. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 36, 573-575.

Spatial Cognition

- *Schultheis, H. & Carlson, L. A. (2018). Inter-Process Relations in Spatial Language: Feedback and Graded Compatibility. *Cognition*, 176, 140-158.
- *Kolesari, J. & Carlson, L. A. (2018). How the Physicality of Space Affects How We Think About Time. *Memory & Cognition*, 46(3), 438-449.
- *Schultheis, H., & Carlson, L. A. (2017). Mechanisms of Reference Frame Selection in Spatial Term Use: Computational and Empirical Studies. *Cognitive Science*, 41 (2), 276-325.
- *Li, X., Carlson, L. A., Mou, W., *Williams, M. R., & *Miller, J. E. (2011). Describing spatial locations from perception and memory: The influence of intrinsic axes on reference object selection. *Journal of Memory and Language*, 65, 222-236.
- *Miller, J.E., Carlson, L. A., & *Hill, P. L. (2011). Selecting a reference object. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 37, 840-850.

- *Miller, J. E., & Carlson, L. A. (2011). Selecting landmarks in a novel environment. *Psychonomic Bulletin & Review*, 18(1), 184-191.
- Carlson, L. A., *Hölscher, C., Shipley, T. F., & Conroy Dalton, R. (2010). Getting Lost in Buildings. *Current Directions in Psychological Science*, 19(5), 284-289.
- Carlson, L. A. & *Hill, P. L. (2008). Processing the presence, placement and properties of a distractor during spatial language tasks. *Memory & Cognition*, 36, 240-255
- Carlson, L. A. & *Van Deman, S. (2008). Inhibition within a reference frame during the interpretation of spatial language. *Cognition*, 106, 384-407.
- *Ashley, A. & Carlson, L.A. (2007). Interpreting proximity terms involves computing distance and direction. *Language and Cognitive Processes*, 22, 1021-1044.
- Carlson, L. A., Regier, T., †Lopez, B. & Corrigan, B. (2006). Attention unites form and function in spatial language. *Spatial Cognition and Computation*, 6, 295-308.
- Carlson, L. A. & †Kenny, R. (2006). Interpreting spatial terms involves simulating interactions. *Psychonomic Bulletin & Review*, 13, 682-688.
- Carlson, L. A. & *Covey, E. S. (2005). How far is near? Inferring distance from spatial descriptions. *Language and Cognitive Processes*, 20, 617-632.
- Carlson, L. A. & *van Deman, S. (2004). The space in spatial language. *Journal of Memory and Language*, 51(3), 418-436.
- Carlson, L. A. (2003). Using spatial language. *Psychology of Learning and Motivation*, 43, 127-161.
- Carlson, L. A., West, R., Taylor, H. A., & †Herndon, R. (2002). Neural correlates of spatial term use. *Journal of Experimental Psychology: Human Perception and Performance*, 28, 1391-1408.
- Carlson, L. A. & Logan, G. D. (2001). Using spatial terms to select an object. *Memory & Cognition*, 29, 883-892.
- Regier, T. & Carlson, L. A. (2001). Grounding spatial language in perception: An empirical and computational investigation. *Journal of Experimental Psychology: General*, 130, 273-298. Order of authorship is arbitrary.
- Carlson-Radvansky, L. A., & *Tang, Z. (2000). Functional influences on orienting a reference frame. *Memory & Cognition*, 28, 812-820.
- Carlson, L. A. (1999). Selecting a reference frame. *Spatial Cognition and Computation*, 1, 365-379.
- Carlson-Radvansky, L. A., *Covey, E. S., & †Lattanzi, K. M. (1999). "What" effects on "where": Functional influences on spatial relations. *Psychological Science*, 10, 516-521.
- Carlson-Radvansky, L. A. & *Jiang, Y. (1998). Inhibition accompanies reference frame selection. *Psychological Science*, 9, 386-391.
- Carlson-Radvansky, L. A., & Logan, G. D. (1997). The influence of reference frame selection on spatial template construction. *Journal of Memory and Language*, 37, 411-437.
- Carlson-Radvansky, L. A. & Radvansky, G. A. (1996). The influence of functional relations on spatial term selection. *Psychological Science*, 7, 56-60.
- Carlson-Radvansky, L. A., & Irwin, D. E. (1994). Reference frame activation during spatial term assignment. *Journal of Memory and Language*, 33, 646-671.
- Carlson-Radvansky, L. A. & Irwin, D. E. (1993). Frames of reference in vision and language: Where is above? *Cognition*, 46, 223-244.

Visual Perception and Attention

- *Schultheis, H. & Carlson, L. A. (2013). Determinants of Attentional Modulation Near the Hands. *Frontiers in Psychology: Perception Science*, 18 November 2013 DOI:

10.3389/fpsyg.2013.00858

- *Miller, J. E., Carlson, L. A., & McAuley, J. D. (2013). When what you hear influences when you see: Listening to an auditory rhythm influences the temporal allocation of visual attention. *Psychological Science*, 24 (1), 11-18. DOI: 10.1177/0956797612446707.
- West, R. L., Carlson, L. A., & Cohen, A-L. (2007). What the eyes can tell us about prospective memory. *International Journal of Psychophysiology*, 64, 269-277.
- †Brockmole, J. R., Carlson, L. A., & Irwin, D. E. (2002). Inhibition of attended processing during saccadic eye movements. *Perception & Psychophysics*, 64, 867-881.
- Carlson, L.A., Covell, E. R., & †Warapius, T. (2001). Transsaccadic coding of multiple objects and features *Psychologica Belgica*, 41 (Special Issue: Transsaccadic Object Perception), 9-28.
- Currie, C., McConkie, G., Carlson-Radvansky, L. A., & Irwin, D. E. (2000). The role of the saccade target object in the perception of a visually stable world. *Perception & Psychophysics*, 62, 673-683.
- Carlson-Radvansky, L. A. (1999). Memory for relational information across eye movements. *Perception & Psychophysics*, 61, 919-934.
- Irwin, D. E., & Carlson-Radvansky, L. A. (1996). Cognitive suppression during saccadic eye movements. *Psychological Science*, 7, 83-88.
- Irwin, D. E., Carlson-Radvansky, L. A., & Andrews, R. V. (1996). Information processing during saccadic eye movements. *Acta Psychologica*, 90, 261-273.
- Carlson-Radvansky, L. A., & Irwin, D. E. (1995). Memory for structural information across eye movements. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 21, 1441-1458.
- Radvansky, G. A., Carlson-Radvansky, L. A., & Irwin, D. E. (1995). Uncertainty in estimating distances from memory. *Memory & Cognition*, 23, 596-606.
- Irwin, D. E., McConkie, G. W., Carlson-Radvansky, L. A., & Currie, C. (1994). A localist evaluation solution for visual stability across saccades. *Behavioral and Brain Sciences*, 17, 265-266.
- Carlson, L. A., Alejano, A. & Carr, T. (1991). The level of focal attention hypothesis in oral reading: Influence of strategies on the context specificity of lexical repetition effects. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 17, 924-931.

Conference Proceedings

Interdisciplinary Research

- *Lugo, J., Schmiedeler, J., Batill, S., & Carlson, L. A. (2014). Relationship between Product Aesthetic Subject Preference and Quantified Gestalt Principles. *ASME 2014 International Design Engineering Technical Conference & Computers and Information in Engineering Conference*, (2014/8/17), V007T07A045-V007T07A045.
- Skubic, M., Huo, Z., Alexenko, T., Carlson, L. A., & Miller, J. (2013). Testing an assistive fetch robot with spatial language from older and younger adults- RO-MAN, 2013 IEEE 697-702.
- Lugo, J., Batill, S., & Carlson, L. (2012). Modeling Product form Preference Using Gestalt Principles, Semantic Space and Kansei. In *Proceedings of the ASME 2012 International Design Engineering Technical Conference & Computers and Information in Engineering Conference*.
- Skubic, M., Alexenko, T., Huo, Z., Carlson, L. A., & *Miller, J. (2012). Investigating spatial language for robot fetch commands. Grounding Language for Physical Systems. *AAAI Technical Report WS-12-07*. Workshops at the Twenty-Sixth AAAI Conference on Artificial

Intelligence.

Skubic, M., Zhiyu, H., Carlson, L. A., Li, X. O., & *Miller, J. (2011). Human-driven spatial language for human-robot interaction. *Human-Robot Interaction in ElderCare: Papers from the 2011 AAI Workshops (WS-11-12)*. Twenty-fifth AAI Conference on Artificial Intelligence.

Spatial Cognition

*Adams, D., *Galeucia, C., *Kolesari, J., Carlson, L.A., & Coventry, K. R. (2015). Priming dynamic-kinematic routines using spatial language. Proceedings of the Cognitive Science Society, Annual Meeting, Philadelphia, (2015/7).

Carlson, L.A., *Kolesari, J., *Galeucia, C. & *Adams, D. (2015). Selecting landmarks when giving directions to different addressees on campus. Proceedings of the Cognitive Science Society, Annual Meeting, Philadelphia, (2015/7).

Invited Book Chapters with Peer Review

Interdisciplinary Research

Shelton, A., Marchette, S., Holscher, C., ^Nelligan, B., Shipley, T., & Carlson, L. (2016). Why people get lost in the Seattle Central Library. In R. C. Dalton & C. Holscher (Eds.). *Take one building: Interdisciplinary Research Perspectives of the Seattle Central Library*. Routledge.

Spatial Cognition

*Schultheis, H. & Carlson, L. A. (2013). *Spatial Reasoning*. Oxford Handbook of Cognitive Psychology, D. Reisberg (Ed.). Oxford University Press. DOI: 10.1093/oxfordhb/9780195376746.013.0045

*Miller, J. E., & Carlson, L. A. (2012). *Functional Effects in Spatial Language*. Y. Coello & A. Bartolo (Eds.). Language and action in the cognitive neurosciences. Psychology Press, (2012/12/7), 193.

Carlson, L. A. Parsing space around objects (2010). In V. Evans & P. Chilton (Eds.). *Language, Cognition, and Space: The state of the art and new directions*. Advances in Cognitive Linguistics Series, Equinox Publishers.

Carlson, L. A. (2010). Encoding space in spatial language. *Spatial Foundations of Cognition and Language (p. 157-187)* (Eds, K. S. Mix, L. B. Smith & M. Graesser), Language and Space Series (General Editor, E. van der Zee), Oxford University Press.

Carlson, L. A. & *Hill, P. L. (2009). Formulating spatial descriptions across various dialogue contexts (pg. 89-103). In K. Coventry, T. Tenbrink, & J. Bateman (Eds.). *Spatial language and Dialogue*, Language and Space Series, Oxford University Press.

Carlson, L. A. Commentator on "Thinking and Talking about Space". (2007). In J. Plumert & J. Spencer (Eds.). *The emerging spatial mind*, pp. 248-263. Oxford University Press.

Carlson, L. A. & *Hill, P. L. (2007). Experimental methods for studying language and space. In M. Gonzalez-Marquez, I. Mittelberg, S. Coulson, & M. Spivey (Eds.) *Methods in Cognitive Linguistics*, pp. 250-276, Amsterdam: John Benjamins.

Carlson, L. A. & Logan, G. D. (2005). Attention and spatial language. In L. Itti, G. Rees, & J. Tsotsos (Eds.). *Neurobiology of attention (pp. 330-336)*. Academic Press.

Carlson, L. A & †Kenny, R. (2005). Constraints on Spatial Language Comprehension. In D.

- Pecher & R. A. Zwaan (Eds), *The Grounding of Cognition: The role of perception and action in memory, language and thinking* (pp. 35-64). Cambridge University Press.
- Carlson, L. A., Regier, T., & *Covey, E. S. (2003). Defining spatial relations: Reconciling axis and vector representations. In E. van der Zee & J. Slack (Eds.). *Representing direction in language and space* (pp. 111-131). Oxford University Press.
- Carlson, L. A. (2000). Object use and object location: The effect of function on spatial relations. In E. van der Zee & U. Niskanen (Eds.) *Cognitive interfaces: Constraints on linking cognitive information* (pp 94-115). Oxford University Press.

Visual Perception and Attention

- Carlson, L. A. (2010). Top-down and bottom-up processing. In B. Goldstein (Ed.), *Encyclopedia of Perception*, Sage.
- Carr, T.H., Dagenbach, D., Van Wieren, D. L., Carlson-Radvansky, L. A., Alejano, A., & Brown, J. (1994). Acquiring general knowledge from specific episodes of experience. In C. Umiltà & M. Moscovitch (Eds.) *Attention and Performance XV: Conscious and nonconscious information processing* (p. 697-724). MIT Press.

Other Publications

Interdisciplinary Research

- Carlson, L. A. and *Covell, E. R. (2004). Defining functional features for spatial language. In L. Carlson & E. van der Zee (Eds.). *Functional features in language and space: Insights from perception, categorization and development*. Oxford University Press.
- Regier, T., Carlson, L. A., & Corrigan, B. (2004). Attention in spatial language: Bridging geometry and function. In L. Carlson & E. van der Zee (Eds.). *Functional features in language and space: Insights from perception, categorization and development*. Oxford University Press.
- Regier, T. & Carlson, L. A. (2002). Spatial language: Perceptual constraints and linguistic variation. In N. Stein, P. Bauer, and M. Rabinowitz (Eds.), *Representation, Memory, and Development: Essays in Honor of Jean Mandler (199-222)*, Lawrence Erlbaum, Mahwah, NJ.

Spatial Cognition

- Carlson, L. A. (2004). *On the "whats" and "hows" of "where"* Review of K. Coventry & P. Olivier (Eds.). *Spatial Language: Cognitive and computational perspectives* Dordrecht: Kluwer Academic Publishers, 2002. *Contemporary Psychology*, 49, 482-485.
- Carlson-Radvansky, L. A. (1997). Room to talk: The language/space interface. Review of P. Bloom, M. A. Peterson, L. Nadel, and M. Garrett (Eds.), *Language and space* Cambridge, MA: MIT Press, 1996. *Contemporary Psychology*, 42, 1116.

Visual Perception and Attention

- Carlson, L. A., McCandliss, B., Alejano, A. & Carr, T. H. (1990). Does attention control the context specificity of repetition benefits in oral reading? *Bulletin of the Psychonomic Society*, 28, 488-488.

Other

Carlson, L. A. (2004). On Applying the Science of Psychology to Life: A Research Methods Primer. In G. Howard (Ed.). *For the love of teaching*. Academic Publications, Notre Dame, IN.

Invited Lectures, Addresses, and Engagements since 2010

Carlson, L. A. (2019). Cultivating the Alumni Base: Friend-raising to Fundraising. Dean's Toolbox Presentation the Summer Annual Meeting of the Council of Graduate Schools, July.

Carlson, L. A. (2018). Data Visualization for Analyzing Career Pathways, Council of Graduate Schools Annual Meeting, December.

Carlson, L. A. (2018). Invited Speaker for CLASP Workshop on Dialogue and Perception, Gothenburg, Sweden.

Carlson, L. A. (2018). Invited speaker at Psychological Scientists as Academic Leaders Symposium, Association for Psychological Science, San Francisco.

Carlson, L. A. (2017-present). Invited Participant in Human Factors in Forensic Practice Sourcebook Working Group, sponsored by RTI.

Carlson, L. A. (2017). Participant in Pre-Workshop Internships, Practicums, and Other Models of Immersive Professional Development, Council of Graduate Schools Annual Meeting, Scottsdale, AZ.

Carlson, L. A. (2016). Open Questions for Reference Frames use in the Domains of Language, Culture, and Environment. Invited talk at Universals and Variation in Spatial Referencing across Cultures and Languages, NSF Specialist Meeting, UC Santa Barbara.

Carlson, L. A. (2016). Spatial Processing. Invited talk at Human Factors in Forensic Practice Sourcebook Working Group. Research Triangle Institute.

Carlson, L. A. (2016): Presentation. Association for Women in Science, Notre Dame, IN, January 21, 2016.

Carlson, L. A. (2014). Why we get lost, *Notre Dame Alumni Association Football Friday Lecture*, Notre Dame, IN, October 3, 2014.

Carlson, L. A., Skubic, M., Miller, J., Huo, Z., & Alexenko, T. (2013). Assessing the effectiveness of older adults' spatial descriptions in a fetch task. Presented at *Cognitive Science Society, Annual Meeting*, Berlin. (read by Tim Shipley)

Carlson, L. A. (2013). Deciding to be Green. *Hesburgh Lecture* presented to the Las Vegas Notre Dame Club.

Carlson, L. A. (2013). Deciding to be Green. *Hesburgh Lecture* presented to the Greater Baltimore Notre Dame Club.

Carlson, L.A. (2012). Invited participant at NSF-funded Specialist meeting: Spatial thinking across the college curriculum. December, Santa Barbara, CA.

Carlson, L.A. (2011-2012). Member of the Inaugural ND Lead Class, Notre Dame, IN.

Carlson, L.A. & Shelton, A. (2011). Organizers for Symposium to be given at Psychonomics:

Wayfinding in the Seattle Public Library: What can we learn about navigational styles? Seattle, Washington, November.

Carlson, L. A. (2011). Wayfinding in the Seattle Central Public Library: Methodology. Paper presented in symposium at the Psychonomic conference in Seattle, WA, November.

- Carlson, L. A. (2011). Wayfinding in the Seattle Central Public Library. Invited paper presented at the Spatial Cognition and Architectural Design conference, New York, NY, November.
- Carlson, L. A., Hoelscher, C. & Shipley, T., (2011). Navigating in buildings: Building features, cognitive maps and individual differences. Paper presented as part of a symposium entitled “Where are we now?: Understanding spatial skills, strategies, and navigation. Association for Psychological Science, Washington, D.C.
- Carlson, L. A. (2011). Deciding to be Green. *Hesburgh Lecture*, University of Tennessee at Chattanooga, October, 2011.
- Carlson, L. A. (2011). Deciding to be Green. *Hesburgh Lecture*, Seton Hill University, October, 2011
- Carlson, L. A. (2011). Project Leader for weeklong intensive, *Experimental Methods in Cognitive Linguistics (EMCL 5.2)*, University of Chicago, June, 2011.
- Carlson, L. A. (2011). *Wayfinding in buildings*. Invited address at the Dublin Institute of Technology, Computational Linguistics Group, Dublin, Ireland, May, 2011.
- Carlson, L. A., Hölscher, C., Shipley, T. & Conroy Dalton, R. (2011). *A Spatial Cognition Framework for Understanding Wayfinding in Buildings*. Talk at the intensive “Design Implications of Spatial Cognition Research”, EDRA MOVE, EDRA 42 Chicago, May 2011.
- Carlson, L. A. (2010). *Getting lost in buildings*. Presentation at the Building Complexity, Spatial Cognition and Individual Differences Panel for the School of the Built and Natural Environment and the Cognition and Communication Research Center in the School of Psychology and Sport Science, Northumbria University, Newcastle, UK, September, 2010.
- Carlson, L. A. (2010). *Encoding the locations of objects during navigation*. University of Freiburg, Germany, April, 2010.
- Carlson, L. A. (2010). *Deciding to be Green*, Hesburgh Lecture, Alvernia University, April, 2010.
- Carlson, L. A. (2010). *Deciding to be Green*, Hesburgh Lecture, Stockton College of New Jersey, April, 2010.

Conference presentations since 2010

- *Kolesari, J. & Carlson, L. A. (2017). How features of contextual events alter the interpretations of *before* and *after*. Poster presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, Canada.
- *Kolesari, J., Lynch, D., Schmiedeler, J., and Carlson, L. (2016). Reaching to an Illusion Using Spatial Reference Frames. Poster presented at the 57th Annual Meeting of the Psychonomic Society, Boston, MA.
- *Kolesari, J. & Carlson, L. (2016). Mapping Time onto a Spatial Reference Frame. Poster presented at 2016 Spatial Cognition Conference, Philadelphia, PA.
- *Nelligan, B., & Amorati, A., *Adams, D. , *Galeucia, C. and Carlson, L. (2016). How spatial ability and stress impact escape path. Poster presented at the 2016 Spatial Cognition Conference, Philadelphia, PA.
- *Adams, D., Amorati, A. R., *Galeucia, C., & Carlson, L. A. (2015). Navigating in an emergency: the effects of stress and spatial ability. Poster presented at the Psychonomic Society’s 56th Annual Meeting, Chicago, IL.
- *Adams, D., *Galeucia, C., *Kolesari, J., Carlson, L. A., & Coventry, K. (2015). Priming

- dynamic-kinematic routines using spatial language. Poster presented at the Annual Meeting of The Cognitive Science Society, Pasadena, CA.
- Carlson, L. A., *Kolesari, J., *Galeucia, C., & *Adams, D. (2015). Selecting landmarks when giving directions to different addressees on campus. Poster presented at the Annual Meeting of The Cognitive Science Society, Pasadena, CA.
- Carlson, L. A., *Kolesari, J., *Galeucia, C., & *Adams, D. (2015). Selecting landmarks when giving directions to different addressees on campus. Poster presented at the Psychonomic Society's 56th Annual Meeting, Chicago, IL.
- *Galeucia, C., Adams, D., Carlson, L. A., Miller, J., & Tenbrink, T. (2015). Choosing landmarks at intersections: navigational versus perceptual salience. Poster presented at the Psychonomic Society's 56th Annual Meeting, Chicago, IL.
- *Adams, D., *Galeucia, C., *Kolesari, J., Carlson, L. A., & Coventry, K. (2014). Evidence for dynamic-kinematic routines in the use of spatial terms. Psychonomic Society's 55th Annual Meeting, Long Beach, CA, November 21, 2014.
- *Kolesari, J., Carlson, L. A. (2014). Using space to understand time. Psychonomic Society's 55th Annual Meeting, Long Beach, CA, November 21, 2014.
- *Galeucia, C., & Carlson, L. A. (2014). The effect of interaction on the selection of reference objects. Psychonomic Society's 55th Annual Meeting, Long Beach, CA, November 21, 2014.
- Carlson, L. A., Skubic, M., Miller, J., Huo, Z., & Alexenko, T. (2013). Assessing the effectiveness of older adults' spatial descriptions in a fetch task. Presented at *Cognitive Science Society, Annual Meeting*, Berlin. (read by Tim Shipley)
- Carlson, L. A., Skubic, M., *Miller, J., *Huo, Z., & *Li, X. (2011). A corpus of spatial descriptions for the development of human-driven spatial language robot algorithms. Poster to be presented at the *52nd Annual meeting of the Psychonomic Society*, Seattle, WA, November, 2011.
- Carlson, L. A. & *Miller, J. (2011). Defining salience for landmark selection. Poster to be presented at the *Cognitive Science Society Annual Meeting*, Boston, July, 2011.
- Carlson, L. A., Hölscher, C., & Shipley, T. Navigating in Buildings: Building Features, Cognitive Maps, and Individual Differences. Talk presented as part of the symposium "Where Are We Now?: Understanding Spatial Skills, Strategies, and Navigation," *Annual Meeting of the Association for Psychological Science*, Washington, DC, May, 2011.
- Carlson, L. A., Shipley, T., *Li, X., Hölscher, C. (2010). Learning about objects along a route through a novel environment. Presentation at the *51st Annual meeting of the Psychonomic Society*.
- Carlson, L. A., Shipley, T., *Li, X. & Hölscher, C. (2010). Why some people get lost in buildings. Paper presented at the unusual bodies and uncommon behaviors workshop at *Spatial Cognition Conference*, August, 2010, Portland, OR.
- *Schultheis, H. & Carlson, L. A. (2010) "Towards a Comprehensive Computational Model of Spatial Term Use" Poster presented at *Spatial Cognition Conference*, August, 2010, Portland, OR.
- *Li, X., Carlson, L. A., & Mou, W. (2010). Describing spatial locations from perception and memory: The effect of spatial reference directions on reference object selection" Poster presented at *Spatial Cognition Conference*, August, 2010, Portland, OR.
- †Mickey, K., Carlson, L. A., & Freundsuh, S. (2010). "Location, Location, Location:

Environmental constraints on interpreting spatial terms". Poster presented at the *Annual Cognitive Science Society Conference*, 2010, Portland, OR.

*Schultheis, H., Carlson, L.A., & Abrams, R. (2010). Attention for Action: Attentional Modulation by the Hands. Poster presented at *Spatial Cognition Conference*, August, 2010, Portland, OR.

REFERENCES AVAILABLE UPON REQUEST