

Spencer Castro

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Department of Psychology
Cognitive Neuroscience
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Education

Ph.D. Student, Cognition and Neural Science, University of Utah, 2015-present
M.S. Cognitive Psychology, University of California, Santa Cruz, awarded 2015
B.S. Science Technology and Society, Stanford University, awarded 2011

Academic Positions

Research Fellow, Cognition and Neural Science, University of Utah 2015-present
Teaching Assistant, Cognitive Psychology, University of California, Santa Cruz 2013-2015
Research Associate, Cognitive and Information Sciences, University of California, Merced 2011-2013

Awards and Honors

Herbert W. Gustafson Scholarship, University of Utah: \$7,500, 2017
Graduate Travel Award, University of Utah: \$800, 2016
Graduate Travel Award, University of Utah: \$800, 2015
NSF GRFP Predoctoral Fellowship, \$138,000, 2015 – 2018
Summer Research Award UC Santa Cruz: \$2,500, 2015
UCSC Regents Fellowship, \$5,000, 2013
International Spatial Cognition Summer Institute Scholarship, \$600, 2013
John Hardin & Evan M. Sivori Scholarship, \$10,166, 2011
Cal Grant A, \$3,236 2011
Bill Lane Center for the American West Fellowship, \$4,040 2011
Stanford Fund Scholarship, \$813, 2011
SMART Grant, \$1,334, 2010-2011
Stanford Varsity Track and Field 4th at NCAA Division 1 National Championships, 2011
Yosemite Institute Winter Club Scholarship, \$2000 in sum, 2007-2009
Mother Lode Stanford Club Scholarship, 2007

Peer reviewed articles

1. **Castro, S.C.** (2017a). How handheld mobile device size and hand location may affect divided attention. In *Proceedings of the human factors and ergonomics society annual meeting* (Vol. 61, 1, pp. 1370–1374). SAGE Publications Sage CA: Los Angeles, CA.
2. **Castro, S.C.**, Cooper, J., & Strayer, D. (2016a). Validating two assessment strategies for visual and cognitive load in a simulated driving task. In *Proceedings of the human factors and ergonomics society annual meeting* (Vol. 60, 1, pp. 1899–1903). SAGE Publications Sage CA: Los Angeles, CA.
3. Cooper, J. M., **Castro, S.C.**, & Strayer, D. L. (2016a). Extending the detection response task to simultaneously measure cognitive and visual task demands. In *Proceedings of the human factors and ergonomics society annual meeting* (Vol. 60, 1, pp. 1962–1966). SAGE Publications Sage CA: Los Angeles, CA.
4. Matlock, T., **Castro, S.C.**, Fleming, M., Gann, T. M., & Maglio, P. P. (2014). Spatial metaphors of web use. *Spatial Cognition & Computation*, 14(4), 306–320.

Manuscripts in Preparation

1. **Castro, S.C.**, Strayer, D. L., Matzke, D., & Heathcote, A. (In Preparation). The effects of task emphasis on drt measurements of cognitive load.
2. **Castro, S.C.**, Strayer, D. L., Matzke, D., & Heathcote, A. (Submitted). Cognitive workload measurement and modeling under divided attention.

Talks

1. **Castro, S.C.**, Strayer, D. L., & Heathcote, A. (2017a). Accumulating evidence about psychological processes. The 44th Annual Conference of the Australasian Society for Experimental Psychology. Newcastle, Australia.
2. **Castro, S.C.**, Cooper, J., & Strayer, D. (2016b). Validating two assessment strategies for visual and cognitive load in a simulated driving task. HFES 2016 International Annual Meeting. Washington, DC.
3. Cooper, J. M., **Castro, S.C.**, & Strayer, D. L. (2016b). Extending the detection response task to simultaneously measure cognitive and visual task demands. HFES 2016 International Annual Meeting. Washington, DC.
4. **Castro, S.C.**, Maglio, P., & Matlock, T. (2013). Spatial metaphors on the web. University of California, Santa Barbara, International Spatial Cognition Summer Institute. Isla Vista, Ca.
5. **Castro, S.C.**, Maglio, P., & Matlock, T. (2012). How we conceptualize the web today. University of British Columbia, Conceptual Structure, Discourse and Language Conference. Vancouver, BC.

Poster Presentations

1. **Castro, S.C.** (2017b). How handheld mobile device size and hand location may affect divided attention. Poster Presentation. HFES 2017 International Annual Meeting. Austin, TX.
2. **Castro, S.C.** Strayer, D. L. & Heathcote, A. (2017). Assessing cognitive load during driving with evidence accumulation models of a detection response task. Poster Presentation. Psychonomic Society 58th Annual Meeting. Vancouver, BC, Canada.
3. **Castro, S.C.**, Strayer, D. L., & Heathcote, A. (2017b). Modeling the detection response task. Poster Presentation. Object Perception, Attention, and Memory Conference. Vancouver, BC, Canada.
4. **Castro, S.C.**, Whitfield, M., & Strayer, D. L. (2017). Sensitivity of the visual detection response task: Interacting with a touch screen in a driving simulator. Poster Presentation. Rocky Mountain Psychological Association Convention. Salt Lake City, UT.
5. Hopman, R. J., Scott, E. E., **Castro, S.C.** Weissinger, K., & Strayer, D. L. (2017). Measuring cognition in nature: Neural effects from prolonged exposure to nature. Poster Presentation. Psychonomic Society 58th Annual Meeting. Vancouver, BC, Canada.
6. Scott, E. E., Hopman, R. J., Weissinger, K., **Castro, S.C.**, Turrill, J., & Strayer, D. L. (2017). The benefits of no service: Immersion in nature significantly increases mood and life satisfaction. Poster Presentation. Annual Meeting of the Society for Personality and Social Psychology. San Antonio, TX.
7. **Castro, S.C.** (2016). Divided attention in multitasking with mobile devices. Poster Presentation. International Meeting of the Psychonomic Society. Granada, Spain.

Courses Taught

PSY 6520, Psychological Measurement. R, University of Utah, Spring, 2017

Teaching Assistant

Perception, with Nicolas Davidenko, Ph.D., UC Santa Cruz, Spring 2015

Cognitive Neuroscience, with Bruce Bridgeman, Ph.D., UC Santa Cruz, Winter 2014

Introduction to Cognition, with Travis Seymour, Ph.D., UC Santa Cruz, Fall 2014
Research Methods, with Faye Crosby, Ph.D., UC Santa Cruz, Winter 2013
History and Systems of Psychology, with Phillip Hammack, Ph.D., UC Santa Cruz, Fall 2013

Guest Lectures

Human Factors and Interaction Design - Orientation to Psychology as a Science and Profession, University of Utah, October, 2016
Measuring Attention in Nature using EEG - Cognition in the Wild, University of Utah, April 2016
Attention - Perception, UC Santa Cruz, May 2015
Cutaneous Perception - Perception, UC Santa Cruz, April 2015
Neuroanatomy of the Visual System - Cognitive Neuroscience, UC Santa Cruz, January 2015

Mentorship

Mitch Whitefield, Awards and placement under mentorship:

1. The Undergraduate Research Opportunities Program Award \$1,200, 2017.
2. The Undergraduate Research Opportunities Program Award \$1,200, 2016.
3. Honors College Thesis, 2017.

Professional Activity

- Co-Founder: University of Utah Diversity Scholars Award, 2017 - *On going*
- Co-Founder and Vice-President: University of Utah Diversity Graduate School Application Advisory, 2016 - *On going*
- American Indian Science and Engineering Society
- Stanford American Indian Organization
- Stanford Alumni Association
- Stanford Powwow Committee & Big/Lil Sib Program
- Sigma Xi, The Scientific Research Society Associate Member
- Sigma Nu Fraternity Inc.
- Second Life for Southern Sierra Miwok Project
- Science Mentorship Program, UC Santa Cruz, 2015
- Head Coach, Men's and Women's Varsity Cross Country, UC Merced, 2011- 2013
- Intern, Yosemite National Park Museum, Bill Lane Center for the American West, 2011
- Camp Counselor, Stanford Cross Country & Track & Field Nike Camp of Champions, 2009
- Coordinator, Stanford Native Immersion Program, 2008 & 2009

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