

Lace M.K. Padilla

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Department of Psychology
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Education

Ph.D. of Psychology In process | University of Utah, Salt Lake City, UT. 2018
Master of Psychology | University of Utah, Salt Lake City, UT. 2015
2015 Summer Institute in Cognitive Neuroscience, UCSB, CA. 2015
International Spatial Cognition Summer Institute, UCSB, CA. 2013
Master of Fine Art | University of Utah, Salt Lake City, UT. 2013
Bachelor of Fine Art | Pacific Northwest College of Art, Portland, OR. 2009

Professional Positions

Research Advisory Board, Art Beyond Sight, New York, 2014 - Ongoing
Adjunct Professor, University of Utah, Technology Education, 2011 - 2015
Adjunct Professor, Stevens-Henager College, Graphic Design, 2012 - 2013
Adjunct Professor, Provo College, Web Development, 2010 - 2012
Adjunct Professor, Eagle Gate College, Web Development, 2010 - 2012

Academic Honors

University of Utah Psychology Commendation in Research, 2015
Summer Institute in Cognitive Neuroscience Fellowship, 2015
Martin Harris Hiatt Memorial Graduate Fellowship, For Underrepresented Populations, 2014
Clayton Fellowship, For Excellence In Research with Underrepresented Populations, 2014
International Spatial Cognition Summer Institute Fellowship, 2013

Awards

Diversity in Advising ASUU award, University of Utah: \$400, 2016
Graduate Travel Award, University of Utah: \$800, 2016
Summer Institute in Cognitive Neuroscience Fellowship: \$1200, 2015

Ford Foundation Predoctoral Fellowship: Honorable Mention, 2015

Graduate Travel Award, University of Utah: \$800, 2015

Martin Harris Hiatt Memorial Graduate Fellowship, For Underrepresented Populations: \$6750, 2014

Graduate Travel Award, University of Utah: \$800, 2014

Clayton Awards Fellow For Excellence In Research with Underrepresented Populations: \$2000, 2014

Computing Community Consortium (CCC) Travel Award: \$1500, 2014

Graduate Travel Award, University of Utah: \$800, 2013

Teaching Assistant Scholarship, Art and Art History Department University of Utah: \$9620, 2011

Multimedia Merit Grant, Pacific Northwest College of Art, OR: \$4000. 2004

Journal Articles

1. Ruginski, I. T., Boone, A. P., Padilla, L. M., Liu, L., Heydari, N., Kramer, H. S., ... Creem-Regehr, S. H. (2016). Non-expert interpretations of hurricane forecast uncertainty visualizations. *Spatial Cognition & Computation*.
2. Cashdan, E. M., Kramer, K. L., Davis, H. E., Padilla, L., & Greaves, R. D. (2015). Mobility and navigation among the yucatec maya. *Human Nature*, 1–16.
3. Padilla, L. M., Hansen, G., Ruginski, I. T., Kramer, H. S., Thompson, W. B., & Creem-Regehr, S. H. (2015). The influence of different graphical displays on nonexpert decision making under uncertainty. *Journal of Experimental Psychology: Applied*, 21(1), 37.
4. Vashro, L., Padilla, L., & Cashdan, E. (2015). Sex Differences in Mobility and Spatial Cognition. *Human Nature*, 1–19.

Manuscripts Under Review

1. Liu, L., Boone, A., Ruginski, I., Padilla, L., Hegarty, M., Creem-Regehr, S., ... House, D. (2016). Uncertainty Visualization by Optimally Sampling from Prediction Ensembles. *IEEE InfoVis*.
2. Padilla, L., Creem-Regehr, S., Stefanucci, J., & Cashdan, E. [Elizabeth]. (2016). Sex differences in virtual navigation influenced by scale and navigation experience. *Psychonomic Bulletin & Review*.
3. Padilla, L., Quinan, S., Meyer, M., & Creem-Regehr, S. (2016). Evaluating the impact of binning 2d scalar fields. *IEEE InfoVis*.

Talks

1. Bartholomew, B., Padilla, L., & Cashdan, E. (2016, April). Mobility, risk-preference, and genetics. Undergraduate research symposium. Salt Lake City, UT.
2. Dixon, L., Padilla, L., Stefanucci, J., Johnstone, A., Creem-Regehr, S., & Cashdan, E. (2016b, April). A comparison of female gamers and non-gamers on spatial cognitive abilities. Undergraduate research symposium. Salt Lake City, UT.

3. Padilla, L. M., Quinan, P. S., Meyer, M., & Creem-Regehr, S. (2016, April). Evaluating the Impact of Binning 2d Scalar Fields. Scientific Computing and Imaging Institute Visualization Group Meeting. Salt Lake City, UT.
4. Cashdan, E. [Elizabeth]. (2015, May). Sex differences in range size: When is travel worth the risk? Human Behavior and Evolution Society annual meeting. Columbia.
5. Creem-Regehr, S., Padilla, L., Stefanucci, J., & Cashdan, E. (2015, September). Effects of Spatial Abilities, Cue-Types, and Scale on Spatial Memory in Virtual Natural Landscape. 6th International Conference on Spatial Cognition. Rome, ITA.
6. Quinan, P. S., Padilla, L. M., Creem-Regehr, S., & Meyer, M. (2015, October). Towards Ecological Validity in Evaluating Uncertainty. Workshop on Visualization for Decision Making Under Uncertainty, VIS '15. Chicago, IL.
7. Ruginski, I., Boone, A., Padilla, L. M., Kramer, H., Hegarty, M., Thompson, W., ... Creem-Regehr, S. (2015, April). Non-expert interpretations of hurricane forecast uncertainty visualizations. Annual Meeting of the Rocky Mountain Psychological Association. Boise, Idaho.
8. Padilla, L. (2014b, October). Uncertainty computation workshop. Computing Community Consortium (CCC). Washington, DC.
9. Padilla, L. M. (2014, March). Spatial Abilities Training for Girls. Expanding Your Horizons Conference. Orem, UT.

Poster Presentations

1. Dixon, L., Padilla, L., Stefanucci, J., Johnstone, A., Creem-Regehr, S., & Cashdan, E. (2016a, May). A comparison of female gamers and non-gamers on spatial cognitive abilities. College of Social & Behavioral Science Student Research Day 2016. Salt Lake City, UT.
2. Padilla, L., Bergmann, T., & Creem-Regehr, S. (2016, May). Uncertainty in Weather Forecast Phrasing. International Meeting of the Psychonomics Society. Granda, Spain.
3. Padilla, L., Creem-Regehr, S., Stefanucci, J., & Cashdan, E. (2015, November). Influence of instructions on female performance on a virtual Morris Water Maze. Poster Presentation. Psychonomics 2015. Philadelphia, PA.
4. Padilla, L., Creem-Regehr, S., Stefanucci, J., & Cashdan, E. [Elizabeth]. (2015, April). Effects of spatial abilities cue types, and scale on spatial memory in virtual natural landscape. Long Beach, CA.
5. Padilla, L., Stefanucci, J., & Cashdan, E. (2015, July). Sex Differences in Virtual Navigation Influenced by Scale, Visual Cue-Types, Spatial Memory and Lifetime Mobility. Annual Conference of the Cognitive Science Society. Long Beach, CA.
6. Ruginski, I., Boone, A., Padilla, L., Kramer, H., Hegarty, M., Thompson, W., ... Creem-Regehr, S. (2015, July). Understanding the Cone of Uncertainty: Non-expert interpretations of hurricane forecast uncertainty visualizations. Annual Conference of the Cognitive Science Society. Pasadena, CA.
7. Padilla, L. (2014a, November). Enhancing Your Spatial Abilities and Performance in STEM. Orem, UT.
8. Padilla, L., Creem-Regehr, S., & Thompson, W. (2013a, June). Uncertainty Cognition of Glyphs. Poster Presentation. Center for Spatial Studies. Santa Barbra, CA.

9. Padilla, L., Creem-Regehr, S., & Thompson, W. (2013b, August). Understanding Uncertainty Visualizations. Poster Presentation. International Spatial Cognition Summer Institute. Santa Barbra, CA.
10. Padilla, L., Creem-Regehr, S., & Thompson, W. (2013c, August). Understanding Uncertainty Visualizations. Poster Presentation. International Spatial Cognition Summer Institute. Santa Barbra, CA.

Professional Activity

Outreach Coordinator: Utah Women and Education Initiative, 2014 - On going

Conference Workshop Leader: Expanding Your Horizons, Inspiring 6th - 10th grade girls to love STEM!, Women's Success Center, 2014

Volunteer Conference Workshop Leader: Empowering Your Tomorrow, The Equity in Education Center at Utah Valley University, 2014

AWIS (Association for Women in the Sciences) active member, Utah Chapter, 2013 - On going

Editorial services: Peters CRC Press Computer Graphics, Vision Visualization, 2013

Golden Key International Honor Society | University of Utah Chapter, 2010 - On going

Last updated: April 30, 2016

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