

Lace M.K. Padilla

University of California Merced
Cognitive and Information Sciences

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Citations: 550
H-index: 13

Education

May 2018	Ph.D. in Psychology, University of Utah
May 2015	M.S. in Psychology, University of Utah
May 2013	M.F.A. in Studio Arts, University of Utah
May 2009	B.F.A. in Multimedia, Pacific Northwest College of Art

Professional Experience

2019 - Current	Assistant Professor, Cognitive & Information Sciences, UC Merced
2018 - 2020	NSF Postdoctoral Research Fellow, Northwestern University
2018 - 2019	Disaster Risk Management and Behavioral Science Consultant, World Bank
2011 - 2015	Adjunct Instructor, University of Utah, Technology Education
2012 - 2013	Adjunct Instructor, Stevens-Henager College, Graphic Design
2010 - 2012	Adjunct Instructor, Provo College, Web Development

Industry Positions

Columnist | Column Title: *Unpacking Uncertainty*. ACM interactions magazine. 2021 – *On going*
Web Developer | Media Forge, Salt Lake City, UT. 2011 – 2012
Lead Graphic Designer | Salty Peaks, Salt Lake City, UT. 2011 – 2010
Front-end Web Developer | Dealer Spike, Portland, OR. 2009 – 2010
Web Designer and Product Designer | Pow Gloves, Seattle WA. 2006 – 2009

Externally Funded Grants

National Science Foundation, 2122174, EAGER: SAI: Facilitating Restoration of Natural Infrastructure Using Uncertainty Communication, \$300,000 (role PI), 2021-22

Department of Energy, Visual Cognition in Support of Transmission Reliability, \$225,000 subcontract total (role subcontract, PI Dr. Laura Matzen, Sandia National Laboratories), 2021-23

National Science Foundation, MRI: Acquisition of Hovermap Rapid Data Capture and 3D Imaging of GPS-Denied Spaces, \$191,696 (role collaborator, PI Dr. Holley Moyes, UC Merced), 2021

National Science Foundation, 2028374, RAPID: Visualizing Epidemical Uncertainty for Personal Risk Assessment, \$191,696 (role CO-PI, PI Dr. Enrico Bertini New York University), 2020-21

National Science Foundation, 1810498, Improving Equity in STEM via Visualization Literacy Cognition, \$138,000 (role PI), 2018-20

Global Facility for Disaster Reduction and Recovery and NASA, 18-RRNES18-0008, Connecting Earth Observations to Decision Makers for Preparedness Actions, \$100,000 (role collaborator, PI Andrew Kruczkiewicz, Columbia), 2018-20

NASA, administered by Gordon Research Conferences: Visionary Research Grant, S15-178-05, Improving Trust in Uncertain Science, \$3,900, (role Co-PI with Steven Franconeri, Northwestern University and Hannah Fairfield, New York Times), 2018-20

Internally Funded Grants

University of California Merced Faculty Success Initiative - Extramural Funding Fellowship (FSI-EFF), \$3,000, 2021

University of Utah Graduate Research Fellowship, \$24,000, 2017-18

Martin Harris Hiatt Memorial Graduate Fellowship, for work with underrepresented populations, \$6,750, 2014

Academic Honors

- Early Career Contribution Award from the Society for Experimental Psychology and Cognitive Science (Division 3 of the American Psychological Association) 2021
- The Frederick T. Rhodewalt Award for Innovative Scholarship: \$1,000, 2018
- ETS Summer Pre-Doctoral Research Internship, Princeton: \$7,000, 2017
- University of Utah Psychology All-Around Commendation (research, mentorship, and service): 2017
- Carl Storm Underrepresented Minority Fellowship, Visualization in Science & Education: \$600, 2017
- Clayton Award for excellence in research with underrepresented populations: \$2,000, 2014
- Martin Harris Hiatt Memorial Graduate Fellowship, for excellence in research: \$6,750, 2017
- Summer Institute in Cognitive Neuroscience Fellowship: \$1,200, 2015
- University of Utah Psychology Commendation in Research: 2015

Journal Articles (*denotes authorship with graduate student mentee)

1. Franconeri, S., **Padilla, L.**, Shah, P., Zacks, J., & Hullman, J. (conditionally accepted). The science of visual data communication: What works. *Psychological Science in the Public Interest*.
2. Castro, S., Housinpour, H., Quinan, S., & **Padilla, L.** (in press). Examining effort in 1d uncertainty communication using individual differences in working memory and nasa-txl. *IEEE Transactions on Visualization and Computer Graphics, VIS 2021*.
3. *Wooden, G., Winter, B., & **Padilla, L.** (in press). The effect of conceptual metaphors on the interpretation of data visualizations. *IEEE Transactions on Visualization and Computer Graphics, VIS 2021*.
4. **Padilla, L.**, Dryhurst, S., Hosseinpour, H., & Kruczkiewicz, A. (2021). Multiple hazard uncertainty visualization challenges and paths forward. *Frontiers in Psychology*, 1993.
5. Ivy, S., Rohovit, T., Lavelle, M., **Padilla, L.**, Stefanucci, J., Stokes, D., & Drew, T. (2021). Through the eyes of the expert: Evaluating holistic processing in architects through gaze-contingent viewing. *Psychonomic Bulletin & Review*, 1–9.
6. **Padilla, L.**, *Powell, M., Kay, M., & Hullman, J. (2020). Uncertain about uncertainty: How qualitative expressions of forecaster confidence impact decision-making with uncertainty visualizations. *Frontiers in Psychology*, 11, 3747.
7. *Lobato, E. J. C., *Powell, M., **Padilla, L.**, & Holbrook, C. (2020). Factors predicting willingness to share covid-19 misinformation. *Frontiers in Psychology*, 11, 2413. doi:10.3389/fpsyg.2020.566108
8. **Padilla, L.**, Creem-Regehr, S. H., & Thompson, W. (2020). The powerful influence of marks: Visual and knowledge-driven processing in hurricane track displays. *Journal of Experimental Psychology: Applied (awarded the APA Early Career Award)*.
9. **Padilla, L.**, Castro, S., Quinan, P. S., Ruginski, I., & Creem-Regehr, S. H. (2019). Toward objective evaluation of working memory in visualizations: A case study using pupillometry and a dual-task paradigm. *IEEE Transactions on Visualization and Computer Graphics*.
10. Quinan, P. S., Padilla, L., Creem-Regehr, S. H., & Meyer, M. (2019). Examining implicit discretization in spectral schemes. In *Computer graphics forum* (Vol. 38, 3, pp. 363–374). Wiley Online Library.
11. Liu, L., **Padilla, L.**, Creem-Regehr, S., & House, D. (2018). Visualizing uncertain tropical cyclone predictions using representative samples from ensembles of forecast tracks. *IEEE Transactions on Visualization and Computer Graphics*, 25(1), 882–891. doi:10.1109/TVCG.2018.2865193

12. **Padilla, L.**, Creem-Regehr, S., Hegarty, M., & Stefanucci, J. K. (2018). Decision making with visualizations: A cognitive framework across disciplines. *Cognitive Research: Principles and Implications*, 3(1), 29. doi:10.1186/s41235-018-0120-9
13. Liu, L., Boone, A. P., Ruginski, I. T., **Padilla, L.**, Hegarty, M., Creem-Regehr, S. H., ... House, D. (2017). Uncertainty visualization by representative sampling from prediction ensembles. *IEEE Transactions on Visualization and Computer Graphics*, 23(9), 2165–2178.
14. **Padilla, L.**, Creem-Regehr, S. H., Stefanucci, J. K., & Cashdan, E. A. (2017). Sex differences in virtual navigation influenced by scale and navigation experience. *Psychonomic Bulletin & Review*, 24(2), 582–590.
15. **Padilla, L.**, Quinan, P. S., Meyer, M., & Creem-Regehr, S. H. (2017). Evaluating the impact of binning 2D scalar fields. *IEEE Transactions on Visualization and Computer Graphics*, 23(1), 431–440.
16. **Padilla, L.**, Ruginski, I. T., & Creem-Regehr, S. H. (2017). Effects of ensemble and summary displays on interpretations of geospatial uncertainty data. *Cognitive Research: Principles and Implications*, 2(1), 40.
17. Cashdan, E., Kramer, K. L., Davis, H. E., **Padilla, L.**, & Greaves, R. D. (2016). Mobility and navigation among the Yucatec Maya. *Human Nature*, 27(1), 35–50.
18. Ruginski, I. T., Boone, A. P., **Padilla, L.**, Liu, L., Heydari, N., Kramer, H. S., ... Creem-Regehr, S. H. (2016). Non-expert interpretations of hurricane forecast uncertainty visualizations. *Spatial Cognition & Computation*, 16(2), 154–172.
19. Vashro, L., **Padilla, L.**, & Cashdan, E. (2016). Sex differences in mobility and spatial cognition. *Human Nature*, 27(1), 16–34.
20. **Padilla, L.**, 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.

Book chapters

1. **Padilla, L.**, Castro, S. C., & Hosseinpour, H. (2021). A review of uncertainty visualization errors: Working memory as an explanatory theory. In K. D. Federmeier (Ed.), *The psychology of learning and motivation* (Vol. 74, pp. 275–315). Psychology of Learning and Motivation. Academic Press. doi:https://doi.org/10.1016/bs.plm.2021.03.001
2. **Padilla, L.**, Kay, M., & Hullman, J. (2021). Uncertainty visualization. In *Wiley statsref: Statistics reference online* (pp. 1–18). American Cancer Society.

Peer Reviewed Conference Proceedings

1. Zhang, Y., Sun, Y., **Padilla, L.**, Barua, S., Bertini, E., & Parker, A. G. (2021). Mapping the landscape of covid-19 crisis visualizations. *Computer Human Interaction*.
2. *Xiong, C., **Padilla, L.**, Grayson, K., & Franconeri, S. (2019). Examining the components of trust in map-based visualizations. *EuroVis Workshop on Trustworthy Visualization (TrustVis)*.
3. *Sharma, R., Tomson, A., Lobato, E., Kallmann, M., & **Padilla, L.** (2020). Data Driven Multi-Hazard Risk Visualization. In J. Byška & S. Jänicke (Eds.), *Eurovis 2020 - posters*. The Eurographics Association. doi:10.2312/eurp.20201117
4. **Padilla, L.** (2018). A case for cognitive models in visualization research. *Proceedings of Workshop at Evaluation and Beyond - Methodological Approaches for Visualization (BELIV) at IEEE Information Visualization*.
5. Creem-Regehr, S. H., **Padilla, L.**, Stefanucci, J. K., & Cashdan, E. (2015a). Effects of spatial abilities, cue-types, and scale on spatial memory in virtual natural landscapes. *Cognitive Processing*, 16, S18–S18.
6. Quinan, S., **Padilla, L.**, Creem-Regehr, S., & Meyer, M. (2015). Towards ecological validity in evaluating uncertainty. *Proceedings of Workshop on Visualization for Decision Making Under Uncertainty, at IEEE Information Visualization*.

Government Reports

1. Llopis Abella, J., Perge, E. B., Afif, Z., Soto Orozco, C. R., **Padilla, L.**, & Hsu, J. (2020). *Using behavioral insights to improve disaster preparedness, early warning and response mechanisms in haiti*. The World Bank.

Other Publications

1. **Padilla, L.** (2016). Sex differences in virtual navigation influenced by visual factors and individual differences. *ProQuest Dissertations Theses Global*.
2. **Padilla, L.** (2013). The art of maps. *Western Humanities Review*, 67(1), 18.

Invited Talks

1. **Padilla, L.** (2021). Recommendations for communicating uncertainty in your data. Invited talk presented at the UC Irvine's CogSci colloquium. Irvine, California.
2. **Padilla, L.** (2020a). The cognitive science of uncertainty visualization. Invited talk presented at King's College London. London, UK.
3. **Padilla, L.** (2020b). Academic careers in psychology. Invited talk presented at the University of Utah. Salt Lake City, UT.
4. **Padilla, L.** (2020c). Visualizing our uncertain world. Invited talk presented at MIT HCI Department Seminar. Massachusetts, MA.
5. **Padilla, L.** (2020d). Visualizing our uncertain world. Invited talk presented at the Colorado State University Psychology Department Seminar. Fort Collins, Colorado.
6. **Padilla, L.** (2020e). How to read uncertainty visualizations. Invited talk presented at the Annual S-H-O-W Conference. Netherlands.
7. **Padilla, L.** (2019). Visualizing our uncertain world. Invited talk presented at Psychological Brain Sciences Brown Bag. Santa Barbara, CA.
8. **Padilla, L.** (2019). Visualizing flood risk and uncertainty. Invited panelist at Earth from Space Institute (EFSI) Symposium, on Making Communities More Resilient to Extreme Flooding. Baltimore, MD.
9. **Padilla, L.** (2019). How they lied with data visualization and why it worked. Invited talk presented at UC Merced Developmental Brown Bag. Merced, CA.
10. **Padilla, L.** (2019). Visualizing our uncertain world. Invited talk presented at Mind Brain and Society Meeting. Merced, CA.
11. **Padilla, L.** (2019). Cognitive sources of reasoning errors with uncertainty visualization. Invited talk presented at Joint Statistical Meeting 2019. Denver, CO.
12. de Sherbinin, A. & **Padilla, L.** (2019). Data visualization and cognition: The challenge of future scenario development. Invited talk present at the Forum on Scenarios for Climate and Societal Futures. Denver, CO.
13. **Padilla, L.** (2019). The state of the art in uncertainty visualization. Invited symposium co-chair, Joint Statistical Meeting 2019. Denver, CO.
14. **Padilla, L.** (2018). Psychology of data visualization. Keynote presented at the Pac-12 Tableau User Group meeting, University of Utah. Salt Lake City, UT.
15. **Padilla, L.** (2018). Reasoning with meteorology displays. Invited talk presented at Columbia University. New York City, NY.
16. **Padilla, L.** (2018). Selecting the best satellite-derived risk tool: Mining the sky for decision-making. Panel talk presented at the 2018 Understanding Risk Forum. Mexico City, MX.
17. **Padilla, L.** (2018). Visualization biases and risk assessment. Session chair at the 2018 Understanding Risk Forum. Mexico City, MX.
18. **Padilla, L.** (2017). Reasoning with hurricane forecast visualizations. Invited talk presented at the University of Utah Dean's Research Leadership Luncheon. Salt Lake City, UT.
19. **Padilla, L.** (2017). Visualization decision making for UX designers. Invited talk presented at Adobe Systems. Lehi, UT.
20. **Padilla, L.**, Quinan, P. S., Meyer, M., & Creem-Regehr, S. (2016a). Evaluating the impact of binning 2D scalar fields. Invited talk presented at the Scientific Computing and Imaging Institute Visualization group meeting. Salt Lake City, UT.

Talks

1. **Padilla, L.**, Castro, S., Quinan, P. S., Ruginski, I., & Creem-Regehr, S. H. (2019). Toward objective evaluation of working memory in visualizations: A case study using pupillometry and a dual-task paradigm. Talk presented at IEEE Information Visualization. Vancouver, BC.

2. House, D., **Padilla, L.**, Liu, L., & Creem-Regehr, S. (2018). Visualizing uncertain tropical cyclone predictions using representative samples from ensembles of forecast tracks. Talk presented at IEEE Information Visualization. Berlin, DE.
3. **Padilla, L.**, Ruginski, I., & Creem-Regehr, S. (2017). Exploring decision biases with ensemble display visualizations. Talk presented at the 25th Annual Workshop on Object Perception, Attention, and Memory (OPAM). Vancouver, BC.
4. Bartholomew, B., **Padilla, L.**, & Cashdan, E. (2016). Mobility, risk-preference, and genetics. Talk presented at Undergraduate Research Symposium. Salt Lake City, UT.
5. Dixon, L., **Padilla, L.**, Stefanucci, J., Johnstone, A., Creem-Regehr, S., & Cashdan, E. (2016). A comparison of female gamers and non-gamers on spatial cognitive abilities. Talk presented at the Undergraduate Research Symposium. Salt Lake City, UT.
6. **Padilla, L.**, Quinan, S., Meyer, M., & Creem-Regehr, S. (2016b). Evaluating the impact of binning 2D scalar fields. Talk presented at IEEE Information Visualization. Washington, DC.
7. Cashdan, E., Barhorst, E., **Padilla, L.**, Stefanucci, J., & Creem-Regehr, S. (2015). Sex differences in range size: When is travel worth the risk? Talk presented at the Human Behavior and Evolution Society Annual Meeting. Columbia University.
8. Creem-Regehr, S., **Padilla, L.**, Stefanucci, J., & Cashdan, E. (2015b). Effects of Spatial Abilities, Cue-Types, and Scale on Spatial Memory in Virtual Natural Landscape. Talk presented at the 6th International Conference on Spatial Cognition. Rome, ITA.
9. Quinan, P. S., **Padilla, L.**, Creem-Regehr, S., & Meyer, M. (2015). Towards Ecological Validity in Evaluating Uncertainty. Talk presented at the Workshop on Visualization for Decision Making Under Uncertainty at IEEE Information Visualization. Chicago, IL.
10. Ruginski, I., Boone, A., **Padilla, L.**, Kramer, H., Hegarty, M., Thompson, W., ... Creem-Regehr, S. (2015). Non-expert interpretations of hurricane forecast uncertainty visualizations. Talk presented at Annual Meeting of the Rocky Mountain Psychological Association. Boise, ID.
11. **Padilla, L.** (2014). Uncertainty computation workshop. Talk presented at the Computing Community Consortium (CCC). Baltimore, MD.

Poster presentations

1. Dixon, L., Pointon, G., **Padilla, L.**, Stefanucci, J., Creem-Regehr, S., & Johnstone, A. (2017). Development of a new gaming questionnaire to assess the influence of game genre on spatial cognitive abilities in males and females. Poster presented at the Rocky Mountain Psychological Association. Salt Lake City, UT.
2. **Padilla, L.**, Creem-Regehr, S., Hegarty, M., & Stefanucci, J. (2017). Decision making with visualizations: A selective review. Poster presented at the Visualization in Science and Education Gordon Research Conference. Lewiston, ME.
3. **Padilla, L.**, Ruginski, I., & Creem-Regehr, S. (2017). Exploring decision biases with ensemble display visualizations. Poster presented at the Annual Meeting - Psychonomic Society. Vancouver, BC.
4. Creem-Regehr, S., **Padilla, L.**, Stefanucci, J., & Cashdan, E. (2016). The influence of realistic textures and shading on mental rotation of 3D objects. Poster presented at Spatial Cognition 2016. Philadelphia, PA.
5. Dixon, L., **Padilla, L.**, Stefanucci, J., Creem-Regehr, S., & Johnstone, A. (2016). Relating video gaming and spatial cognition in women. Poster presented at Psychonomics 2016. Boston, MA.
6. Dixon, L., **Padilla, L.**, Stefanucci, J., Johnstone, A., Creem-Regehr, S., & Cashdan, E. (2016). A comparison of female gamers and non-gamers on spatial cognitive abilities. Poster presented at College of Social & Behavioral Science Student Research Day 2016. Salt Lake City, UT.
7. **Padilla, L.**, Bergmann, T., & Creem-Regehr, S. (2016). Uncertainty in Weather Forecast Phrasing. Poster presented at Psychonomics International 2016. Granda, Spain.
8. **Padilla, L.**, Creem-Regehr, S., Stefanucci, J., & Cashdan, E. (2015). Influence of instructions on female performance on a virtual Morris Water Maze. Poster presented at Psychonomics 2015. Chicago, IL.

9. **Padilla, L.**, Stefanucci, J., & Cashdan, E. (2015). Sex differences in virtual navigation influenced by scale, visual cue-types, spatial memory and lifetime mobility. Poster presented at Annual Conference of the Cognitive Science Society. Long Beach, CA.
10. Ruginski, I., Boone, A., **Padilla, L.**, Kramer, H., Hegarty, M., Thompson, W., ... Creem-Regehr, S. (2015). Understanding the cone of uncertainty: Non-expert interpretations of hurricane forecast uncertainty visualizations. Poster presented at the Annual Conference of the Cognitive Science Society. Pasadena, CA.
11. **Padilla, L.**, Creem-Regehr, S., Stefanucci, J., & Cashdan, E. (2014). Effects of spatial abilities cue types and scale on spatial memory in virtual natural landscape. Poster presented at Psychonomics 2014. Long Beach, CA.
12. **Padilla, L.**, Creem-Regehr, S., & Thompson, W. (2013). Uncertainty cognition of glyphs. Poster presented at the Center for Spatial Studies. Santa Barbara, CA.
13. **Padilla, L.**, Creem-Regehr, S., & Thompson, W. (2013). Understanding uncertainty visualizations. Poster presented at the International Spatial Cognition Summer Institute. Santa Barbara, CA.

Professional Activity

Virtual VIS Chairs, IEEE VIS, 2021 - *On going*

Diversity Committee, IEEE VIS, 2020 - *On going*

SPARK Society Governing Board. 2021 - *On going*

NSF panel reviewer 2021

Workshop Co-chair, Visualization Psychology, IEEE VIS, Salt Lake City, UT. 2020

IEEE VIS Program Committee, 2019, 2020

EuroVis Program Committee, 2020

iLRN Program Committee, 2020

Poster Chair, Spatial Cognition Conference, Tuebingen, 2018

Founder: University of Utah Diversity Scholars Award, 2017 - 2018

The National Science Foundation, STEM Ambassador, 2017 - 2018

Outreach Coordinator, Utah Women and Education Initiative, 2014 - 2018

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

Teaching

Courses taught at the University of California, Merced:

COGS 214 Global Good Studio, Data Visualization | *SP 2020, Fall 2021*

COGS 269 Pro Dev, Websites-Grants-Talks | *Fall 2021*

COGS 170 Judgement and Decision Making | *SP 2020, SP 2021, Fall 2021*

COGS 250 Mind, Technology and Society talk series | *Fall 2020*

Courses taught at the University of Utah:

PSY 3120-090 Cognitive Psych | *Summer 2018*

Content Management Systems (Technology Education) | *Summer 2013, 2012, SP 2012, Fall 2011*

CSS 2 (Technology Education) | *SP 2014, Summer 2013, 2012, SP 2012, Fall 2011*

CSS 1 (Technology Education) | *Summer 2013, 2012, SP 2012, Fall 2011*

ART 1020 - Non-major Basic Drawing | *SP 2013*

XHTML (Technology Education) | *Summer 2012, Fall 2011*

Courses taught at Stevens-Henager College

Web Design | *Summer 2012*

Interactive Web Design | *Summer 2012*

Advanced Photoshop | *Summer 2012*

Digital Photography | *Summer 2012*

Courses taught at Provo College

Content Management Systems | *Summer 2011*
Story Boarding | *Summer 2011*
Typography | *Summer 2011*
Design Fundamentals | *Summer 2011, Winter 2010*
Advanced Web Design | *SP 2011, SP 2010*
Marketing and Branding for Designers | *SP 2011, Fall 2010*
Design Studio | *SP 2011*
Video Production | *SP 2011*
Adobe Illustrator | *SP 2010*
Web Design | *Fall 2010*

Guest Lecturer:

DMUY 4913 Climate and Design, New York University, *March 2019*
EESC GU5407 Applications in Climate + Society, Columbia University, *March 2019*
IEMS 365: Analytics for Social Good, Northwestern University, *January 2019*
EESC GU5407 Applications in Climate + Society, Columbia University, *March 2018*
PSY 2015: Skepticism and Scientific Thinking: Defense Against the Pseudosciences, University of Utah, *January 2018*
PSY 2010: Orientation to Psychology as a Science and Profession, University of Utah, *October 2016*
PSY 3150: Sensation and Perception, University of Utah, *January 2015*
PSY 3150: Sensation and Perception, University of Utah, *November 2014*
PSY 3960: Explorations Through Psychology and the Arts, University of Utah, *March 2013*

Courses Developed:

Global Good Studio, Data Visualization, UC Merced
Judgement and Decision Making, UC Merced
Content Management Systems, University of Utah
Digital Photography, Stevens-Henager College
Design Studio, Provo College
Marketing and Branding for Designers, Provo College
Web Design 1 and 2, Provo College
Typography, Provo College

Ph.D. Students

Helia Hosseinpour, 2020 - *On going*

Editorial Positions

- Editorial Board, Journal of Experimental Psychology: Applied 2021- *On going*
- Guest Editor, Frontiers in Psychology and Frontiers in Computer Science, Special topic on Uncertainty Visualization 2019-2020

Ad hoc reviewer

IEEE Vis, Euro Vis, TVCG, PBR, CRPI

Diversity Outreach Talks

1. **Padilla, L.** (2018). Overcoming obstacles as a minority in STEM. Invited talk presented at Movimiento Estudiantil Chicanx de Aztlán (MEChA) Conference. Salt Lake City, UT.
2. **Padilla, L.** (2018). From rural to science. Invited talk presented at SUCCESS Academy. Cedar City, UT.
3. **Padilla, L.** (2017). The art of science. Invited talk presented at Latinos in Action | Youth Leadership Conference. Salt Lake City, UT.
4. **Padilla, L.** (2014). Enhancing your spatial abilities and performance in STEM. Talk presented at the Utah Valley University 2014. Orem, UT.
5. **Padilla, L.** (2014). Spatial abilities training for girls. Invited talk presented at Expanding Your Horizons Conference. Orem, UT.

Service

- Native Repatriation, Cultural Preservation, and Outreach Committee, UC Merced 2020 - *On going*
- Founder and President: University of Utah Diversity Graduate School Application Advisory, 2015 - 2018
- Vice President, SACNAS University of Utah Chapter, 2017 - 2018
- 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

Membership

- Psychonomic Society
- IEEE Computer Society
- Women Tech Council
- Association for Women in the Sciences (AWIS)
- Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)

Press

- Mission Unstoppable. CBS TV Show. (2021, May 18). How Can Perception Save Lives? [Feature Segment on Dr. Padilla's research to inspire young girls to go into STEM].
- Pop, R. (2020, June 19). The Difference Between Teaching and Doing Data Visualization—and Why One Helps the Other [Article Interview]
- Bertini, E. and Stefaner, M. (2019, October 23). Cognitive Science for Data Visualization [Podcast Interview]
- Hullman, J. (2019, September 1). How to Get Better at Embracing Unknowns. Scientific American [Magazine]
- Lewandowsky, S. (2017, October 4). Preparing for Nate and Ophelia: how people process hurricane forecasts. Psychonomic Society [Online Research Feature]
- Bartels, M. (2017, October 7). Hurricane Nate: no one knows how to read hurricane forecasts - here's why. Newsweek [Online Article]