Mirinda Whitaker

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Education ___

PhD, Cognition & Neural Science (in progress)

Salt Lake City, UT, USA

University of Utah

• Emphasis in Quantitative Psychology

• Advisors: Dr. Jeanine Stefanucci, Dr. Sarah Creem-Regehr, & Dr. Pascal Deboeck

MS, Cognition & Neural Science

Salt Lake City, UT, USA

March 2022

expected 2025

University of Utah
Thesis: Space and time symmetrically influence one another and are not impacted by fibromyalgia pain

BS, Psychology/ BS, Writing & Rhetoric Studies

Salt Lake City, UT, USA

University of Utah

May 2019

• suma cum laude

Professional Experience _____

University of Utah

2021-present	Graduate Research Assistant, Deboeck Lab
2019-present	Graduate Research Assistant, Pain Research Center
2019-present	Graduate Research Assistant, Vision, Audition, & Action in Space & Time (VAAST) Lab
Fall 2021	Statistical Consultant, VAAST Lab/ Applied Visual Attention Lab
2019-2020	Graduate Health Sciences Writing Fellow, University Writing Center
2018-2020	Research Writing Liaison , University Writing Center/Office of Undergraduate Research
2017-2019	Undergraduate Writing Tutor, University Writing Center
2017-2019	Undergraduate Research Assistant, Visual Perception & Spatial Cognition Lab

Publications_

PUBLISHED ARTICLES & BOOK CHAPTERS

- Adams, H., Creem-Regehr S. H., **Whitaker, M. M.**, Stefanucci, J. K., & Bodenheimer, B. (in press). Perceiving Absolute Distance in Augmented Reality Displays with Realistic and Non-realistic Shadows. *ACM Symposium on Applied Perception 2023*.
- Gill, D. M., **Whitaker, M. M.**, *Olpin, Z., & Stefanucci, J. K. (2022). The perceived duration of vast spaces is mediated by awe. *Attention, Perception, & Psychophysics*.
- **Whitaker, M. M.**, *Hansen, R., Creem-Regehr S. H., & Stefanucci, J. K. (in principal acceptance, 2022). The relationship between space and time perception: a registered replication of Casasanto and Boroditsky (2008). *Attention, Perception, & Psychophysics.*
- Stefanucci, J. K., Saxon, M., & **Whitaker, M. M.** (2021). Embodied perception and Action in Real and Virtual Environments. In: Robinson M.D., Thomas L.E. (eds) *Handbook of Embodied Psychology: Thinking, Feeling, and Acting* (pp. 311-336). Springer, Cham.
- **Whitaker, M. M.**, Pointon, G. D., Tarampi, M. R., & Rand, K. M. (2020). Expertise effects on the perceptual and cognitive tasks of indoor rock climbing. *Memory & Cognition*, 1-17.

MANUSCRIPTS UNDER REVIEW

Updated: September 29, 2023

^{*} denotes undergraduate student author

- **Whitaker, M. M.**, *Hansen, R., Creem-Regehr S. H., & Stefanucci, J. K. (accepted pending minor revisions). The relationship between space and time perception: a registered replication of Casasanto and Boroditsky (2008). *Attention, Perception, & Psychophysics.*
- **Whitaker, M. M.**, Bergeman, C. S., & Deboeck, P. R. (under review as of 07/06/2023). Summing the up and downs of life: The Bayesian Reservoir Model of Psychological Regulation. *Psychological Methods*.
- **Whitaker, M. M.**, Bruce, R. A., Burstedt, D., Mistunaga, R., Odell, D., Deboeck, P., Stefanucci, J. K., & Okifuji, A. O. (revise and resubmit request as of 08/30/2023). Increased pain variability in chronic pain patients: A role for pain catastrophizing. *The Journal of Pain*.
- Shayman, C., Barhorst-Cates, E., Hullar, T., **Whitaker, M. M.**, Creem-Regehr, S. H., & Stefanucci, J. K. (under review as og 9/15/2023). A Redundant Auditory Cue Improves Spatial Updating in a Virtual Reality Navigation Task. *Target journal: Attention, Perception, & Psychophysics*

MANUSCRIPTS IN PREPARATION

- **Whitaker, M. M.**, Okifuji A. O., Creem-Regehr, S. H., & Stefanucci, J. K. (in prep). Space and time symmetrically influence one another in perception and are not impacted by chronic pain. *Target Journal: Journal of Experimental Psychology: Human Perception and Performance*
- Joiner, R., Nelson, N., Deboeck, P.R., **Whitaker, M. M.**, & Bergeman, C. S. (in prep). Longitudinal reservoir model of stress dissipation and concomitant perceptions of control. *Target journal: Psychology and Aging*
- Okifuji, A., Johnson, K., **Whitaker, M. M.**, Steenblik, J., Bruce, R. A., Burstedt, D., Mistunaga, R., & Odell, D. (in prep). Effect of Anxiety and Opioid Use on the Endogenous Inhibitory Pain Modulation *Target journal: Pain Reports*.
- **Whitaker, M. M.**, Finney, H., *Elston, J., *Epperson, L., Creem-Regehr, S. H., & Stefanucci, J. K. (in prep). The Perceptual Fidelity of Affordance Judgments in Real and Virtual Environments *Target journal: Transactions on Visualization and Computer Graphics*

Awards, Fellowships, & Grants ___ **EXTRAMURAL** 2023 Trainee Diversity Award, Society for Affective Science \$200 2022 Research Highlight, Psychonomic Society's 63rd Annual Meeting 2021 Graduate Research Fellowship: Honorable Mention, National Science Foundation 2020 Travel Award, International Association for the Study of Pain \$ 1,200 INTRAMURAL: UNIVERSITY OF UTAH 2023 Professional Development Award, Department of Psychology **Excellence in Research Commendation**, Department of Psychology **Excellence in Service Commendation**, Department of Psychology Conference Travel Award, Graduate School \$ 1000 2022 Virtual Conference Travel Award, Graduate School \$200 Travel Award, Associated Students of the University of Utah \$600 **Excellence in Research Commendation**, Departement of Psychology Clayton Excellence in Graduate Research Award, Department of Psychology \$ 1000 Klekas Outstanding Service Award: Runner-up, Department of Psychology \$ 100 Online Research Small Grant, Department of Psychology \$ 250 **Excellence in Research Commendation**, Department of Psychology Excellence in Teaching Commendation, Department of Psychology **Undergraduate Research Mentorship Certificate**, Office of Undergraduate Research

2019	Pilot Research Small Grant, Department of Psychology	\$ 300
2018	Travel Award, Associated Students of the University of Utah Hagander Book Award, College of Humanities	\$ 600 \$ 500
2017-2018	Undergraduate Research Opportunities Grant, Office of Undergraduate Research	\$ 3200

Conference Presentations -

⁺ presenting author, * mentored undergraduate

TALKS

- * Whitaker, M., Bergeman, C. S., & Deboeck, P. R. (June, 2023). Summing the up and downs of life: The Bayesian Reservoir Model of Psychological Regulation. Talk presented at the 2023 Modern, Modeling, Methods Conference.
- * Whitaker, M., Okifuji, A., Deboeck, P. R., Creem-Regehr, S. H., & Stefanucci, J. K. (April, 2023). *Modeling the dynamics of pain and emotional distress using the Bayesian Reservoir Model.* Flash talk presented at the 2023 annual meeting of the Society for Affective Science.
- * Whitaker, M., Finney, H., *Elston, J., *Epperson, L., Creem-Regehr, S. H., & Stefanucci, J. K. (November, 2022). The Perceptual Fidelity of Affordance Judgments in Real and Virtual Environments. Presented at the 2022 annual meeting of the Psychonomics Society.
- *Whitaker, M., Okifuji, A., Creem-Regehr S., & Stefanucci, J. (April, 2022). *Increased pain variability in chronic pain patients: a role for pain catastrophizing.* Flash talk presented at the 2022 annual meeting of the Society for Affective Science.
- *Whitaker, M. (March, 2018). Desirable difficulties in the writing center. Paper presented at The Rocky Mountain Writing Center Conference.

POSTERS

- *Whitaker, M., Deboeck, P.R., & Okifuji, A. (June, 2023). *Derivative estimation to quantify pain variability in chronic pain patients*. Poster presented at the 2023 Modern Modeling Methods Conference.
- [†]Munion, A., **Whitaker, M.**, & Okifuji, A. (April, 2023). *A DSEM exploration of EMA reports of pain and emotional distress for patients with fibromyalgia*. Poster presented at the 2023 annual meeting of the Society for Affective Science.
- **Whitaker, M.**, Deboeck, P., Bruce, R. A., Burstedt, D., Mistunaga, R., Odell, D. & Okifuji, A. O. (September, 2022). *Increased pain variability in chronic pain patients: A role for pain catastrophizing.* Poster presented at the 2022 IASP world congress on pain.
- ⁺Faulkner, J., **Whitaker, M.**, & Rand, K. (November, 2022). *Effects of working memory on interference between space and time perception*. Poster presented at the 2022 annual meeting of the Psychonomics Society.
- *Whitaker M., Okifuji, A., Creem-Regehr S., & Stefanucci, J. (May, 2022). The impact of fibromyalgia on space and time perception. Poster presented at the 2022 annual meeting of the Vision Sciences Society.
- ⁺Konold, C., Geuss, M., Butner, J., **Whitaker, M.**, Murdock, R., Stefanucci, J., Creem-Regehr S., & Drew, T. (May, 2022). *Unintended consequences of trying to help: augmented target recognition cues bias perception.* Poster presented at the 2022 annual meeting of the Vision Sciences Society.
- **Faulkner, J., **Whitaker, M.**, & Rand, K. (April, 2022). *Effects of Working Memory on Perception of Space and Time.* Poster presented at the 2022 Undergraduate Research Symposium.
- *Whitaker, M., Gill, D., Azbill, M.S., & Stefanucci, J.K. (November, 2021). *Perceived size of objects is affected by the vastness of a scene*. Poster presented at the 2021 annual meeting of the Psychonomics Society.
- **Hansen, R., **Whitaker, M.**, & Stefanucci, J. (November, 2021). *Practice Makes Near Perfect: The Effects of Practicing Music on Perception of Time and Space*. Poster presented at the 2021 annual meeting the Psychonomics Society.
- *Whitaker, M., Stefanucci, J., Creem-Regehr S., & Okifuji, A..(September, 2020). *Perception of Action Capabilities with Experimentally Induced Pain*. Poster presented at the 2020 International Association for Pain Virtual Expo.

- *Whitaker, M., Rand, K., & Pointon, G. (November, 2018) Expertise effects on affordance perception and action in indoor rock climbing. Poster presented at the 2018 Annual Meeting of the Psychonomics Society, New Orleans, LA.
- Rand, K. M., Tarampi M. R., *Whitaker, M., & Pointon, G. (November, 2017). The effect of expertise on motor sequence and visual memory for indoor rock-climbing routes. Poster presented at the 2017 Annual Meeting of the Psychonomics Society, Vancouver, BC.

Teaching Experience_

University of Utah

COURSES TAUGHT

Fall 2021	Statistical Methods (online), Graduate Lab Instructor
Summer	Sensation and Perception (online), Graduate Instructor
2021	

TEACHING ASSISTANT-SHIPS

Fall 2023	Honors Thesis Seminar, Graduate Teaching Assistant
Spring 2023	*Multi-Level Modeling II (hybrid), Graduate Teaching Assistant
Spring 2022	*Multi-Level Modeling I (online), Graduate Teaching Assistant
Spring	*Quantitative Methods II: Generalized Linear Modeling (online), Graduate
2021	Teaching Assistant
Fall 2020	*Quantitative Methods I: Correlation and Regression Basics (online), Graduate Teaching Assistant
Spring 2019	Psychology as a Science and a Profession , Undergraduate Teaching Assistant
Fall 2018	Sensation and Perception, Undergraduate Teaching Assistant
Spring 2018	Memory and Cognition, Undergraduate Teaching Assistant
Fall 2017	Brain and Behavior, Undergraduate Teaching Assistant

CONDUCTED WORKSHOPS

February 2020	Undergraduate Research Opportunities Program , <i>Editing a Research Proposal</i>
October 2019	Undergraduate Research Opportunities Program , Writing a Research Proposal

Service____

AD HOC REVIEWER

Quarterly Journal of Experimental Psychology (1)

Psychonomic Bulletin and Review (1)

Attention, Perception, and Psychophysics (2)

Behavioral Brain Research (1)

Visual Cognition (1)

IEEE VR (1)

Human Movement Science (1)

^{*} indicates graduate level course

^{*} co-reviewed with advisor

Psychology of Sport and Exercise Science (2) Plos One (1) Journal of Pain* (1) Journal of Behavioral Medicine* (1) Pain Practice* (1)

OUTREACH & ADVANCEMENT OF DIVERSITY IN SCIENCE

*bulleted items indicate presentations given or awards received

Co-organizer/founder, FemmeSTEM: a quantitative reading group focused on the advancement of historically marginalized genders and identities in quantitative methods

2020-present

- Power (Fall 2023)
- Model Comparison & Estimation Algorithms (Spring 2023)
- Intensive Longitudinal Data Analyses (Fall 2022)
- Simulation Methods (Spring 2022)
- Psychometrics & Measurement Theory (Fall 2021)
- Multi-level Modeling & Intensive Data Methods (Spring 2021)
- Bayesian Statistics (Fall 2020)

President & Co-organizer, Diversity Graduate Application Advisory: a graduate-student run organization that matches undergraduate students interested in pursuing graduate school with graduate student mentors

2019-present

- Topics in Mentoring and Mentee-ing for Graduate/Undergraduate Student and Post-Doctoral Scholars, University of Utah Research Education (November 2021)
- Applying to Graduate School, University of Utah Asia Campus (April 2021)
- Panelist Graduate School Information Session, University of Utah College of Social and Behavioral Sciences Solutions Scholars (November 2020)

Member, University of Utah Psychology Department Diversity Committee

2019-present

- University of Utah: 2021 Beacons of Excellence Award
- University of Utah College of Social and Behavioral Science: 2021 Advancing Equity and Connecting Communities Award

Judge, Annual Utah Charter School Science and Engineering Fair

February 2021

Member, University of Utah Psychology Department Outreach Committee

• Psychology as a Science, Bright Futures: Park City High School (November 2019)

2019-2020

DEPARTMENTAL SERVICE

Graduate Student Representative, Cognition & Neural Science Faculty Search Committee

Fall 2022

CNS Area Representative, Professional Issues and Ethics(PIE) Committee: a departmental resource focused on professional issues and ethics with the aim of preventing serious ethical and boundary issues

August 2021- May 2022

Invited Member, Klekas Outstanding Service Award Review Committee

March 2022

Mentoring_

University of Utah

	Kimberly Zimmerman, Undergraduate Research Opportunities Program: The
2022-2023	Influence of Anxiety on the Perception of Space and Time — Currently completing a
	PhD in Psychology with a specialization in Brain & Cognition at Utah State University
2021-2023	Jim Faulkner, Undergraduate Research Opportunities Program/ Quantitative
	Methods Certificate: The Effects of Working Memory on Perception of Space and
	Time — Currently completing a PhD in Psychology with a specialization in Cogntion &
	Cognitive Neuroscience at University of Michigan
2019-2022	Lucas Epperson , Human Factors Certificate: The Perceptual Fidelity of Affordance
	Judgments in Real and Virtual Environments — Currently completing a Masters in
	Human Factors Engineering at Embry-Riddle Aeronautical University
2020-2021	Rachael Hansen, Undergraduate Research Opportunities Program: The Impact of
	Musical Expertise on the Perception of Space and Time

Professional Memberships _____

International Association for the Study of Pain The Society for Affective Science Vision Sciences Society Psychonomic Society

Relevant Expertise _____

SKILLS

Proficient in R, STAN, PsychoPy, LaTeX, Excel, general linear modeling, multilevel modeling, Bayesian statistics, structural equation modeling, generalized linear modeling (e.g. logistic/probit & Poisson regression), & copy editing

Experience with Python, JavaScript, Unity, Matlab, BUGS, JAGS, Adobe Suite Programs, Stata, SPSS, Graph Pad Prism, Qualtrics, MPlus, parallel computing, non-parametric modeling, & missing data techniques (e.g. multiple imputation & maximum likelihood)

PROFESSIONAL DEVELOPMENT

Oct. 2022	Intensive Longitudinal Data Analysis, Center Stat
Sept. 2021	Applied Bayesian Data Analysis, Statistical Horizons
May 2021	Introduction to Structural Equation Modeling, Center Stat