# Swati Pandita

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### Research Interests

Human Computer Interaction: social media & virtual reality (VR), mental health & embodiment, avatars & identity

# Education

2017–2022	Communication, PhD, Cornell University Committee: Drs. Andrea Stevenson Won (Chair), Lee Humphreys, Natalie Bazarova, Marlen Gonzalez, and JoAnn Difede Dissertation: "Affective Avatars: Effects of Avatar Customization on Positive and Negative Emotions"
2020	Communication, MS, Cornell University
2016	Information Science, MPS, Cornell University
2015	Neuroscience, BS, Rhodes College

# Research Experience

8/2022-present	<b>The Fear Lab,</b> California Institute of Technology, Pasadena, CA Postdoctoral Researcher
8/2017–8/2022	<b>The Virtual Embodiment Lab</b> , Cornell University, Ithaca, NY Graduate research assistant
1/2017–6/2017	<b>The Yau Lab</b> , Baylor College of Medicine, Houston, TX Research assistant
4/2016–1/2017	Pairade (now Current), Chicago, IL User experience research intern
5/2016–8/2016	<b>Psycomm Lab</b> , Cornell University, Ithaca, NY Graduate research assistant
2/2016–5/2016	Communication & Collaborative Technologies Lab, Cornell University, Ithaca, NY Graduate research assistant

8/2015–1/2016 Visual Cognition Lab, Rhodes College, Memphis, TN
 Undergraduate research assistant
 5/2014–7/2014 Cognition and Aging Lab, Rhodes College, Memphis, TN
 Undergraduate research assistant
 9/2013–5/2014 Learning Technologies Lab, Rhodes College, Memphis, TN
 Undergraduate research assistant

### **Awards**

2025	Michael Hayley Travel Award (\$750), International Communication Association
2024	Info Sys Travel Award (\$600), International Communication Association
2024	Chen Institute Travel Grant (\$600), Caltech
2021	CALS Alumni Association Award (\$400), Cornell University
2020	Media Studies Graduate Working Group Grant (\$1,000), Cornell University
2017	Cornell Graduate Research Fellowship (\$28,036), Cornell University
2014	Cognitive Aging Fellowship (\$4,329), Rhodes College

### Journal Publications

- Lim, C., Ratan, R., **Pandita, S.**, Foxman, M., Hales G. E., Liu, H., Lei, Y. S., Beyea, D., Lee O. JY. "Openness to the Metaverse Workplace: Zoom fatigue and metaverse information seeking mediate gender inequities." *Human Behavior and Emerging Technologies.* (in press)
- 2024 Pandita, S.\*, Garg, K.\*, Zhang, J., Zhang, J., Mobbs, D. (2024). "The three roots of online toxicity: Disembodiment, Accountability, and Disinhibition." Trends in Cognitive Sciences (TiCS), 28(9). https://doi.org/10.1016/j.tics.2024.06.001 \*equal author contribution
- Kao, D., Mubarrat, S. T., Joshi, A., **Pandita, S.**, Mousas, C., Liang, H. N., & Ratan, R. (2023). "Exploring how gender-anonymous voice avatars influence women's performance in online computing group work." *International Journal of Human-Computer Studies*, 103146. https://doi.org/10.1016/j.ijhcs.2023.103146

- Boydstun, C., **Pandita, S.**, Finkelstein-Fox, L., Difede, J. "Harnessing virtual reality for disaster mental health: a multidisciplinary systematic review." *Translational Issues in Psychological Sciences*. https://doi.org/10.1037/tps0000282
- Won, A. S., **Pandita, S.,** Kruzan, K. (2020). "Social interaction and pain threshold in virtual reality." *Cyberpsychology, Behavior, and Social Networking*, 23(12). https://doi.org/10.1089/cyber.2020.0055

Madden, J. H., **Pandita, S.**, Won, A.S., Schuldt, J.P., Kim, B., & Holmes, N.G. (2020). "Ready student one: Exploring the predictors of student learning in virtual reality." *PLoS ONE*, 15(3). https://doi.org/10.1371/journal.pone.0229788

# **Book Chapters**

- 2025 Ratan, R. & **Pandita, S.** (2025, in press). "Avatar, a Lasting Definition: A mediated self-representation that an intelligent user controls during dynamic interactions. In K. E. Shackleford & N. D. Bowman (Eds.) *The Oxford Handbook of Media Psychology, Second Edition*.
- Pandita, S., & Won, A.S. (2020). "Clinical Applications of virtual reality in patient-centered care." In J. Kim & H. Song (1), Technology and Health: Promoting Attitude and Behavior Change (pp. 129–148). Academic Press.

### **Archived Papers**

- Sun, Y., **Pandita, S.**, Madden, J. M., Kim, B., Holmes, N. G., Won, A. S. (2023). "Exploring interaction, movement, and video-game experience in an educational VR Experience." In *Extended Abstracts on Human Factors in Computing Systems (CHI)*.
  - Long, T.†, **Pandita, S.**, & Won, A. S. (2023). Perspectives from Naive Participants and Experienced Social Science Researchers on Addressing Embodiment in a Virtual Cyberball Task. In *Computer Supported Cooperative Work and Social Computing* (CSCW) (pp. 189-194). †mentored student author
  - **Pandita, S.**, Humphreys, L., Won, A.S. (2023) "The Paradox of Customization: Negotiating racial identity with "multiple choice" in avatar creation." *PsyArXiv*.

# Conference Papers & Presentations

- Pandita, S., Kim, J.K., Mobbs, D. (2025) "Ignoring the hate: exploring reward systems in preventing toxic disinhibition." Poster to be presented at the 75th Annual International Association of Communication Conference, June 12-16, Denver, CO.
- Pandita, S., Ratan, R., Kim, T., Jang, D., Lim, C., Xu, K., Won, A.S., Stavropoulos, V., Sinlapanuntakul, P., Praetorius, A.S., Pena, J., Park, I., Nowak, K., Matthews, N., MacArthur, V., Lin, T., Lee, K.M., Klebig, B., Kim, S.,...Aymerich-Franch, L. (2024). "The Development and Validation of the Motivations for Avatar-Mediated Meetings (MAMM) Scale." Paper presented at 74th Annual International Association of Communication Conference, June 20–24, Gold Coast, Australia.
- Won, A.S. & **Pandita, S.** (2022). "Being Yourself: A Scoping Review on How Avatar Personalization Is Implemented in Empirical Work." Poster presented at 72nd Annual International Association of Communication Conference, May 26-30, Hybrid Conference.
- Pandita, S., Humphreys, L., Won, A.S. (2021). "The paradox of customization: Negotiating racial identity with "multiple choice" in avatar creation." Paper presented at 71st Annual International Association of Communication Conference, May 27–31, Virtual Conference.
  - **Pandita, S.**, (2021). "Mechanisms of care: The importance of routine for mental healthcare in Animal Crossing New Horizons." Research escalator presented at 71st Annual International Association of Communication Conference, May 27-31, Virtual Conference.
- Pandita, S., Yee, J., & Won, A.S. (2020). "Affective embodiment: Embodying emotions through postural representation in VR." Poster presented at 27<sup>th</sup> IEEE Conference on Virtual Reality and 3D User Interfaces, March 22–26, Atlanta, GA.
  - **Pandita, S.** (2020). "Affective embodiment: The effect of avatar appearance and gesture representation on emotions in VR." Doctoral Consortium at 27<sup>th</sup> IEEE Conference on Virtual Reality and 3D User Interfaces, March 22–26, Atlanta, GA.
- Pandita, S., Humphreys, L., & Won, A.S. (2019). "Expectations of the self in virtual reality: A qualitative analysis of virtual avatar creation." Paper presented at 24th Annual CyberPsychology, CyberTherapy, and Social Networking Conference, June 24–26, Norfolk, VA.

- **Pandita, S.**, Celikors, E., Rojas, N., et al. (2019). "Visualizing Movement with Learning Outcomes in Educational VR Environments." Poster presented at 24<sup>th</sup> Annual CyberPsychology, CyberTherapy, and Social Networking Conference, June 24–26, Norfolk, VA.
- Won, A.S., Kruzan, K.\*, & **Pandita, S**.\* (2019). "As long as you're with me: the effects of social presence and distance on pain perception in virtual environments." Paper presented at 24<sup>th</sup> Annual CyberPsychology, CyberTherapy, and Social Networking Conference, June 24–26, Norfolk, VA.
  \*equal author contribution
- Madden, J. H., Won, A. S., Schuldt, J. P., Kim, B., **Pandita, S.**, Sun, Y., et. al. (2018). "Virtual Reality as a Teaching Tool for Moon Phases and Beyond." In Proceedings of the Physics Education Research Conference, Aug 1–2, Washington, DC.
  - Sun, Y., **Pandita, S.**, Shaikh, O., Kim, B. & Won, A. S. (2018). "Personalized Avatars and Self-presence." In Proceedings of the International Society for Presence Research Annual Conference, May 21–22, Prague, Czech Republic.
- Schrader, D., Tallapragada M., **Pandita S.**, Etri C., & Shore A. (2017). "Self Efficacy and Social Aggression." Paper presented at 43<sup>rd</sup> Association for Moral Education Annual Conference, St. Louis, MO.
  - Schrader, D., Tallapragada M., **Pandita S.**, Etri C., & Shore A. (2017). "Personality, Trust, and the Privacy Creep." Paper presented at 43<sup>rd</sup> Association for Moral Education Annual Conference, St. Louis, MO.
- 2016 **Pandita, S.**, Suresh, S., & Haberman, J. (2016). "Average Size Estimation of Dots Completing behind an Illusory Surface Is Precise." Poster presented at 16<sup>th</sup> Annual Meeting of Vision Sciences Society.
- Person, S., **Pandita S.\***, & Schonhoff A.\* (2014). "Politeness Strategies in Expert Tutoring." Poster presented at 24<sup>th</sup> Annual Meeting of Society for Text & Discourse, Chicago, IL. \*equal author contribution

### Current Research

- 2025 **Pandita S.**, Won, A. S. (in prep). "Effects of avatar customization on AAPIs coping with negative emotions."
  - **Pandita, S.**, Difede, J., Won, A. S. (in prep). "Breathing Room: designing mood regulation spaces for depression."

Guo, S., Liu, C., **Pandita, S.**, Sun, Y., Bailey, J., Won, A. S. (in prep). "Like the Back of My Own Hand: Investigating the effects of context and experience on people's attitudes toward inconsistent first-person avatar views."

**Pandita, S.**, Garg, K., Zhang, B., Anderson, I. A., Mobbs, D. (in prep). "The neural correlates of social media."

**Pandita, S.**, Garg, K., Mobbs, D. (in prep). "It's good for my health: Exploring perceptions of social media use for anxiety management."

**Pandita, S.**, Anderson, I. A., Mobbs, D. (in prep). The boundaries of disembodiment: a questionnaire for virtual disembodiment.

Anderson, I. A., Garg, K., **Pandita, S.**, Mobbs, D. (in prep). "Likability and monetary reward and punishment in anonymous online chats."

Garg, K., Anderson, I. A., **Pandita, S.**, Mobbs, D. (in prep). "Social interactions and individual differences in online conversations."

# Cornell University Teaching Experience

#### Instructor of Record

Summer 2022	COMM 2010 Oral Communication
Spring 2020	COMM 2010 Oral Communication
Fall 2019	COMM 2010 Oral Communication
Summer 2019	COMM/INFO 2450 Communication and Technology

#### **Graduate Teaching Assistant**

Spring 2022	COMM 3200 New Media & Society
Fall 2021	COMM 1101 Introduction to Communication
Summer 2021	COMM 4300 Ethics in New Media, Technology, and Communication
Fall 2017	COMM/INFO 2450 Communication and Technology

#### **Guest Lecturer**

Spring 2022	COMM 3200 New Media & Society
Fall 2021	COMM 1101 Introduction to Communication
Summer 2021	COMM 1300 Visual Communication
Spring 2019	COMM 1300 Visual Communication

## Invited Talks, Workshops, & Panels

- Panel participant, "Looking Beyond Meet Space: Presenting a Research Platform in VRChat." <u>International Communication Association Conference</u>. Denver, CO.
- 2024 Invited talk, "Effects of Avatar Embodiment on Clinical VR Applications for Mental Health." <u>Virtual Medicine (vMed24) Conference</u>. Los Angeles, CA.
- Invited participant, "2023 DataSAI for Neuroscience Summer School" hosted by Caltech. Pasadena, CA.
- 2021 Invited talk, "iLRN 2021 UX Insights." <u>Immersive Learning Research Network (iLRN)</u>. Online.
- Invited participant, "Research Collaboration Opportunity Jam." XR Access Symposium. Online.
- 2020 Invited talk, "Affective Embodiment: designing virtual environments for depression management." Visual Cognition Lab, Rhodes College.
- 2019 Organized Workshop, "Hands-on Workshop in Immersive Technology for Beginners." <u>Immersive Media in Medicine Symposium</u>. New York, NY.

Panel Moderator, "VR for Beginners." <u>Immersive Media in Medicine Symposium</u>. New York, NY.

Invited participant, "Grad Cohort for Women 2019" hosted by Computing Research Association Widening Participation (CRA-WP). Chicago, IL.

Panelist, "Practical Replication and Data Sharing Examples." 69<sup>th</sup> International Communication Association of Communication Conference. Washington, D.C.

### Service

#### Volunteer

- 2024 Meaningful XR, conference organizer
- 2022 Cornell University, Department of Communication's Advisory Board, graduate student volunteer

iLRN Assessment and Evaluation Team
 Connecting Opportunities Summer Event, organized by Lesa Carter and Kathy Dimiduk of Engineering, Cornell University.

#### Reviewer (since)

Scientific Reports
 Meaningful XR 2024
 Journal of Media Psychology
 Designing Interactive Systems
 International Communication Association (ICA)
 Conference on Human Factors and Computing Systems (CHI)
 Computer-supported Cooperative Work (CSCW)
 New Media & Society
 Cyberpsychology, Behavior, and Social Networking

### Students Mentored

#### Current

#### Caltech

202	24	Matt Tyszka, Biology (BS)
Julia Kim, Computer Science (BS) Noah Okada, PhD student at Caltech		
202	22	Molina Zhang, Neuroscience (BS), now PhD student at Brown University
Cornell University		
201	18	Jueun Kwon, MEng (BS), now PhD student at Northwestern University

#### **Former**

#### Cornell University

2021-2022	Stephanie Tan, Communication (BS)
	Tao Long, Information Science (BS)
2021	Winnie Chen, Communication (BS)

2020-2022	Cathy Xie, Communication (BS)
2020	Christabella Forest, Communication (BS)
2019-2020	Nayana Paraviel, Computer Science (BS) Annie Fu, Information Science (BS) Michael Huang, Information Science (BS)
2017-2020	Jessica Yee, Information Science (BS) Joshua Zhu, Information Science (BS)
2017-2018	Jane Kim, Computer Science (BS) Frank Rodriguez, Computer Science (BS) Anirudh Maddula, Computer Science (BS)
Rhodes College	
2014-2016	Ashley Bruneau, Biology (BS)

# Association Membership

2019-2020 IEEE

2015–2016 Vision Sciences Society (VSS)

# Media Coverage

2024 <u>Model highlights three roots of online toxicity</u>. Phys.org. Aug 26. <u>Understanding Online Toxicity</u>. Caltech News. Aug 24.

2019 <u>Episode 65: Jack Madden and Swati Pandita</u>. Leading Lines Podcast. Oct 7.

Study Finds No Difference in VR Learning Outcomes Compared to Other

Modes. Campus Technology. Feb 7.

Study probes effect of virtual reality on learning. Cornell Chronicle. Feb 5.

### Skills

Psychophysics MatLab, Psych Toolbox, AFNI, FreeSurfer

Qualitative Interview study design, semi-structured interviews, and thematic analysis

Quantitative Experimental design, collection, and analysis of VR, social media, and fMRI

data, survey design, frequentist statistics (SPSS, R)

User-centered Development: Unity Engine (C#), WebGL, FTP

Design Prototyping: Adobe Photoshop, Figma, Sketch, Invision, CSS, HTML

Methods: Avatar customization, Participatory design, Personas, User Model-

ing, Storyboarding, User-testing