Veronica A. Rivera, Ph.D

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Research interests: HCI, social computing, digital harm, safety, security, future of work, ethics

Academic Appointments

Fall 2023- **Embedded Ethics Postdoctoral Fellow**, *Stanford University Institute for Human-Centered AI (HAI) & McCoy Family Center for Ethics in Society*

2023 **Visiting Researcher**, *The University of Florida Computer and Information Science and Engineering Department*

2022-2023 **Visiting Researcher**, *Max Planck Institute for Software Systems Safety and Society Group*

Education

2017-2023 **PhD, Computational Media**, *University of California Santa Cruz*
Dissertation: Safety & Harm in Social Computing Systems that support Matching Markets
Committee: David Lee, Chris Benner, Elizabeth Gerber, Elissa M. Redmiles, Norman Makoto Su

2013–2017 **BSc, Joint Computer Science and Mathematics**, *Harvey Mudd College*
Concentration in Psychology

Publications

* indicates equal contribution, listed alphabetically by last name

PEER-REVIEWED CONFERENCE & JOURNAL PAPERS

CHI 2022 Ma, N.F.*, **Rivera, V.A.***, Yao, Z., Yoon, D. *"Brush it Off": How Women Workers Manage and Cope with Bias and Harassment on Gender-agnostic Gig Platforms.* The 2022 ACM Conference on Human Factors in Computing Systems.

CSCW 2021 **Rivera, V.A.**, Lee, D.T. *I Want to, but First I Need to: Understanding Crowdworkers Career Goals, Challenges, and Tensions.* Proceedings of the ACM on Human-Computer Interaction.

JKTR 2017 Nelson, S., Orrison, M., **Rivera, V.** *Quantum Enhancements and Biquandle Brackets.* The Journal of Knot Theory and its Ramifications.

ISVC 2015 Tenorio, D., **Rivera, V.**, Medina, J., Leondar, A., Gaumer, M., Dodds, Z. *Visual Autonomy via 2D Matching in Rendered 3D Models.* The International Symposium on Visual Computing.

JKTR 2014 Nelson, S., **Rivera, V.** *Quantum Enhancements of Involutory Birack Counting Invariants.* The Journal of Knot Theory and its Ramifications

PAPERS UNDER SUBMISSION

2023 **Rivera, V.A.**, Wilkinson, D., Redmiles, E.M., Strohmayer, A. *Safer Algorithmically-Mediated Offline Introductions: Harms and Protective Behaviors*

2023 Huang, J., Ma, N.F, **Rivera, V.A.**, Somani, T., Lee, P.Y.K, McGrenere, J., Yoon, D. *Supporting Online Freelancers to Navigate Relationships with Clients: Uncovering Design Tensions Through a Speculative Participatory Design Study*

PEER-REVIEWED WORKSHOP & CONSORTIA PAPERS

CSCW 2019 **Rivera, V.A.**, Lee, D.T. *It Takes a Village to Change Jobs: Towards Workplace Relationships that Support Reskilling in Crowdwork.* The Future of Work(places): Creating a Sense of Place for On-Demand Work. Workshop at ACM CSCW.

ITS 2018   **Rivera, V.** *A New Approach to Testing Children with Autism Spectrum Disorder Using Affect*. Doctoral Consortium at the International Conference on Intelligent Tutoring Systems.

Teaching Experience

Summer 2023   **Ethics in Technology**, *Stanford University Pre-Collegiate Summer Institutes*, Instructor of Record
10-day online course for high school students across the world focusing on ethical issues related to technology; I designed the curriculum based on my HCI 220 course at UCSC

Winter 2023   **HCI 220: Ethics & Activism in Technology & Design**, *UC Santa Cruz*, Instructor of Record
The course was made a requirement for the HCI MS program at UCSC after my first offering in Spring 2022

Spring 2022   **HCI 220: Ethics & Activism in Technology & Design**, *UC Santa Cruz*, Instructor of Record
Graduate-level elective course focusing on ethical issues related to technology and labor movements in the tech industry; I designed the curriculum from scratch

Winter 2022   **CMPM 178: Human-Centered Design Research**, *UC Santa Cruz*, TA
Upper division undergraduate course introducing user research methods

Fall 2021   **CMPM 35: Data Structures for Interactive Media**, *UC Santa Cruz*, TA
Undergraduate course introducing data structures to non-computer science majors

Spring 2021   **CSE 20: Beginning Programming in Python**, *UC Santa Cruz*, TA
First computer science course in the major for undergraduates with no prior experience

Winter 2021   **CMPM 178: Human-Centered Design Research**, *UC Santa Cruz*, TA

Fall 2018   **CMPS 12A: Introduction to Programming, Accelerated**, *UC Santa Cruz*, TA
Accelerated introductory course for students with some experience, taught in Java

Spring 2018   **CMPS 5J: Introduction to Programming in Java**, *UC Santa Cruz*, TA
Undergraduate Java course for students with no prior experience.

Winter 2018   **CMPS 5J: Introduction to Programming in Java**, *UC Santa Cruz*, TA

Fall 2014   **CS 5: Introduction to Computer Science**, *Harvey Mudd College*, Undergraduate Tutor

Fellowships and Awards

2021   **ARCS Scholarship**, *UC Santa Cruz*, excellence in academics and STEM research

2019   **Chancellor's Graduate Internship Fellowship**, *UC Santa Cruz*, for research that advances student experiences at UC Santa Cruz
1 out of 5 recipients across entire graduate division

2019   **Travel Scholarship**, *CRA*, To attend CRA-W Grad Cohort Workshop for Women

2019   **Travel Scholarship**, *CRA*, To attend CRA-URMD Grad Cohort Workshop for underrepresented students

2018   **Summer Regent's Fellowship**, *UC Santa Cruz*

2013   **President's Scholarship**, *Harvey Mudd*, 4-year full-tuition
1 out of 8 recipients across graduating class of 2017

Invited Talks

March 2023   **Post-Digital Safety in Digitally-Mediated Offline Introductions**, UC San Diego HCI Seminar

February 2023	**Post-Digital Safety in Digitally-Mediated Offline Introductions**, Stanford University Security Lunch
January 2023	**Post-Digital Safety in Digitally-Mediated Offline Introductions**, Stanford University Computing & Society Seminar
April 2022	**Long-Term Worker Well-Being in the Future of Work**, Stanford University HCI Lunch

Research Appointments

March 2023- Aug. 2023	**The University of Florida**, *Visiting Researcher* Advisor: Elissa M. Redmiles Researching digital harm and safety concerns and protective behaviors in social computing systems; qualitative and design methods, statistical analysis of survey data
July 2022- March 2023	**Max Planck Institute for Software Systems**, *Visiting Researcher* Advisor: Elissa M. Redmiles Researching digital security and safety concerns and protective behaviors in digitally-mediated offline interactions; statistical analysis of survey data
Jan.2019–	**University of California, Santa Cruz**, *Graduate Researcher* Advisor: David T. Lee Researching well-being in digitally-mediated gig work as related to career development; semi-structured interviews and qualitative analysis
Sep.2017- Jan.2019	**University of California, Santa Cruz**, *Graduate Researcher* Advisor: Sri Kurniawan (advisor and lab change in Jan.2019) Researching how educational classroom tools can be used students with Autism Spectrum Disorder; conducted observations in a special education classroom
Aug.2016- May 2017	**Harvey Mudd College**, *Undergraduate Researcher* Advisor: Lisa Kaczmarczyk & The MITRE Corporation Developed an image de-identification algorithm that makes it harder for Local Binary Patterns and Dlib Deep Learning algorithms to recognize an individual in a photo for undergraduate group thesis project
Summer 2015	**Harvey Mudd College**, *Undergraduate Researcher* Advisor: Zachary Dodds Investigated the strengths and drawbacks of using the Matterport 3D camera for robotic spatial reasoning.
2011-2015	**Claremont McKenna College**, *High School/Undergraduate Researcher* Advisor: Sam Nelson Studied topology and knot theory and researched ways of defining new knot invariants

Service

2023	**Paper Reviewer**, *New Media and Society*
2022	**Paper Reviewer**, *CHI 2022* Special recognition for outstanding reviews
2020-2021	**Assistant Community Manager**, *UC Santa Cruz Computational Media Department* Helped organize department social events, and visit days for admitted graduate students; Organized and maintained list of undergraduate research opportunities; Led grad school info sessions with undergraduate STEM cultural groups
2019-2021	**Paper Reviewer**, *CSCW 2019, 2020, and 2021* Special recognition for outstanding reviews (2021)
2019	**Paper Reviewer**, *Human-Computer Interaction Journal* Invited reviewer
2018, 2020	**Alumni Admissions Interviewer**, *Harvey Mudd College*

2018   **Graduate Student Mentor**, *UC Santa Cruz Department of Computational Media*
Helped first year graduate student navigate the department and grad school

Undergraduate Research Mentoring

Betros Abraha, *UC Santa Cruz*

Ashvini Bhupatiraju, *UC Santa Cruz*, Now: Technology analyst at Wells Fargo

Jason Chan, *UC Santa Cruz*, Now: Product Designer at Fin

Mark Gonzales, *UC Santa Cruz*, Now: Electronic Engineer at ZaiNar Tech

Gurdikhia Kaur, *UC Santa Cruz*, Now: MSc Student at UCL, Prev: UX Researcher at Toyota Research Institute

Sonali Malik, *UC Santa Cruz*, Now: Product Manager at Microsoft

Taylor McPherson, *UC Santa Cruz*, Now: Frontend Engineer at Hightouch

Benjamin Paulsen, *UC Santa Cruz*

Mathew Raju, *UC Santa Cruz*

Saki Yokokawa, *UC Santa Cruz*

Celeste Zhao, *UC Santa Cruz*, Now: MS Student at UW HCDE

Su Zin, *UC Santa Cruz*

Professional Development

2022   **Invited workshop presenter**, MuC Conference Workshop on Inclusive Security by Design

2021   **Teaching for Equity Certificate**, UC Santa Cruz Center for Innovations in Teaching and Learning

2020   **Graduate Student Leadership Certificate**, UC Santa Cruz Graduate Division

2019   **Invited workshop attendee**, JobKit Developer's Conference at the US White House

2019   **Invited workshop attendee**, Human-Computer Interaction Consortium on the Futures of Work