

NEILLY H. TAN

human computer interaction researcher
sensors, privacy, personal data, and care

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EDUCATION

University of Washington

Ph.D. Candidate, Human Centered Design and Engineering 2019 - present
Co-advisors: Sean Munson and Audrey Desjardins

M.S., Human Centered Design and Engineering 2022
Design Research Masters earned concurrently with Ph.D.

Brown University

Sc.B. Cognitive Science, focus area in Human-Computer Interaction 2014 - 2018
Research Advisor: Jeff Huang

Rhode Island School of Design

Studied Industrial Design and Graphic Design through cross-registered classes. 2016 - 2018

PUBLICATIONS

JOURNAL ARTICLES & CONFERENCE PROCEEDINGS

- P.5 **Slanted Speculation: Material Encounters with Algorithmic Bias**
Gabrielle Benabdallah, Ashten Alexander, Sourojit Ghosh, Chariell Glogovac-Smith, Lacey Jacoby, Caitlin Lustig, Anh Nguyen, Anna Parkhurst, Kathryn Reyes, **Neilly H. Tan**, Edward Wolcher, Afroditi Psarra, Daniela Rosner
DIS 2022 Pictorials: ACM Conference on Designing Interactive Systems
- P.4 **Monitoring Pets, Deterring Intruders, and Casually Spying on Neighbors: Everyday Uses of Smart Home Cameras**
Neilly H. Tan, Richmond Y. Wong, Audrey Desjardins, Sean A. Munson, James Pierce
CHI 2022: ACM Conference on Human Factors in Computing Systems
- P.3 **Critical-Playful Speculations with Cameras in the Home**
Neilly H. Tan, Brian Kinnee, Dana Langseth, Sean A. Munson, Audrey Desjardins
CHI 2022: ACM Conference on Human Factors in Computing Systems
- P.2 **Case Studies on the Motivation and Performance of Contributors Who Verify and Maintain In-Flux Tabular Datasets**
Shaun Wallace, Alexandra Papoutsaki, **Neilly H. Tan**, Hua Guo, Jeff Huang
CSCW 2021: ACM Conference on Computer Supported Collaborative Work
- P.1 **Rewind: Automatically Reconstructing Everyday Memories with First-Person Perspectives**
Neille-Ann H. Tan, Han Sha, Eda Celen, Phucanh Tran, Kelly Wang, Gifford Cheung, Philip Hinch, Jeff Huang
ACM Interactive, Wearable, Mobile, and Ubiquitous Technologies (IMWUT) 2018, 2(4).

WORKSHOPS AND POSITION PAPERS

- W.2 **Subtle CSCW Traits: Tensions Around Identity Formation and Online Activism in the Asian Diaspora**
Calvin Liang, **Neilly H. Tan**, Emily Tseng, Sachin R. Pendse, Crystal Lee, Ruotong Wang, Alexandra To, Amy X. Zhang, Kimberley R. Allison
CSCW 2022 Workshops. Workshop Organizer.
- W.1 **Human-Data Interaction through Design with Smart Home Cameras**
Neilly H. Tan, Audrey Desjardins, Sean A. Munson
CHI 2021 Workshop: Human-Data Interaction. Position Paper.

OTHER PUBLICATIONS

- O.1 **UbiComp 2019: A Post-Conference Summary Report**
Young D. Kwon, Mohammed Khwaja, **Neille-Ann H. Tan**, Marla Narazani, Mikolaj P. Wozniak, Arshad Nasser, Rahul Majethia, Lucy Van Kleunen, Victoria Neumann, Rajkarn Singh
IEEE Pervasive Computing 18.4 (2019): 71-79.

RESEARCH EXPERIENCE

University of Washington — School of Art + Art History + Design

Graduate Research Assistant (with James Pierce)

2021 - present

Researching how people live with and think about smart home cameras, surveillance, personal data, and privacy.

University of Washington — Human Centered Design & Engineering

Graduate Research Assistant (with Sean Munson, Audrey Desjardins)

2019 - present

Researching topics related to surveillance, personal data, and privacy through critical and discursive design methods.

Brown University — Human-Computer Interaction Lab

Research Assistant (with Jeff Huang)

2017 - 2019

Researched crowdsourcing for data maintenance; Project lead on Rewind, a web app for preserving memories through mobile location data.

Brown University — Laboratory for Neural Computation & Cognition

Undergraduate Research Assistant

2016

Optimized interface and task design for Parkinson's patients, researched dopamine-related effects on visual working memory.

INDUSTRY EXPERIENCE

Meta

Summer 2022

UX Research Intern, Data Infrastructure — Menlo Park, CA.

- Spearheaded product research and direction on board-level Privacy & Security initiatives across Data Infrastructure.
- Regularly collaborated with engineers, designers, and product managers across multiple teams and organizations.
- Research results drove significant impact on product strategy with senior-level product and engineering managers.

Bolster, LLC (formerly TextUp) <i>UX Researcher & Designer</i> <ul style="list-style-type: none"> Designed a secure cloud-based communication platform used by social workers and healthcare providers under HIPAA and FERPA constraints. 	2019
Affect Mental Health (Harvard-MIT Startup) <i>UI/UX Design Intern</i> <ul style="list-style-type: none"> Led UX Design team to create a mental healthcare resource website Built product site from scratch: conducted user interviews, created wireframes, and developed hi-fidelity prototype. 	2018

TEACHING EXPERIENCE

UNIVERSITY OF WASHINGTON

Co-Instructor — IoT and Older Adults (Directed Reading Group) Led a small team of students (including PhD, Masters, and undergraduates) through issues of privacy and care dynamics in the context of older adults, their support network, and always-on monitoring devices.	Spring 2022
Teaching Assistant — Interaction Design for Everyday Reflection (HCDE 418) <i>40 undergraduates.</i> Guided students through interaction design for everyday reflection, including planning classes, holding office hours, grading coursework, and teaching class on occasion.	Spring 2021
Co-Instructor — Non-Primary IoT Users (Directed Reading Group) Led a small team of Masters students through qualitative and speculative design research methods.	Winter 2021
Instructor — Discursive Design Inquiry with Home Cameras (Directed Reading Group) Led a team of 5 students (including PhD, Masters, and undergraduates) through discursive design methods using the subject of home cameras.	Autumn 2020

BROWN UNIVERSITY

Teaching Assistant — Statistical Methods (CLPS 0900) <i>55 undergraduates.</i> In-class assistant with a flipped-classroom learning method; graded exams and tutored students.	Autumn 2018
Head Teaching Assistant — User Interfaces and User Experience (CSCI 1300) <i>222 undergraduate and graduate students.</i> Hired and led a team of 14 undergraduate and graduate teaching assistants. Developed course content and organized guest lecture series with industry professionals from Google, IDEO, Microsoft Research, and more.	Autumn 2017
Teaching Assistant — User Interfaces and User Experience (CSCI 1300) <i>167 undergraduate and graduate students.</i> Taught weekly design labs, lead organizer for design-intensive bootcamp, held office hours and graded materials.	Autumn 2016

INVITED TALKS & PRESENTATIONS

INVITED PRESENTATIONS

T.2	"Exploring, Enacting, Questioning: Critical and Design Research Perspectives on Sensing Technologies in the Home." Neilly H. Tan. CHI Manila. Sept 2022. Online.
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- T.1 "Material Experiments and Playful Disruptions: Interrogating Boundaries, Meanings, and Aesthetics of the Smart Camera." Richmond Y. Wong, Neilly H. Tan, Nathaniel Gray, Jason Valdez, James Pierce. Society for Social Studies of Science (4S) 2021, Making and Doing Session. Online.

GUEST LECTURES

- TG. 2 Invited panelist on "Interview Methods" for HCDE 519: Qualitative Research Methods (2022).
 TG. 1 Invited talk on "Sousveillance Theory Lineage" for HCDE 542: Theoretical Foundations (2021).

HONORS & AWARDS

National Science Foundation Graduate Research Fellowship	2021 – present
Recognition for Outstanding Review - CHI 2021, CHI 2022	2021, 2022
HCDE Graduate Student Excellence - GSA Team Award	2021
UW Resilience Lab Seed Grant Recipient (HCDE)	2020
Brown University LINK Award	2018
Karen T. Romer Undergraduate Research & Teaching Award (<i>two-time recipient</i>)	2016, 2017
Hack@Brown Finalist (out of 300)	2016
Edson Grant, Arizona State University	2015
International Baccalaureate Diploma	2014

PROFESSIONAL SERVICE

CONFERENCE SERVICE

ACM CHI Reviewer	2021, 2022
Student Volunteer, UbiComp/ISWC	2019
Student Volunteer, WIPITTE Conference	2016

DEPARTMENT AND UNIVERSITY SERVICE

Design Use Build (DUB) Student Coordinator	2022 - present
DUB Seminar Coordinator	2021 - 2022
HCDE PhD Research Grant Reviewer	2022
PhD Representative, HCDE Graduate Student Association	2020
Student Organizer, HCDE PhD Visit Days	2020
Design Software Instructor, Brown University Computer Education	2016 - 2018
Peer Academic Advisor, Brown University Meiklejohn Program	2015 -2016
High School Math Tutor, Brown University Algebra-In-Motion	2014 - 2015