

# Yujie TAO

<https://yujietao.me>  
@ yjtao@stanford.edu

## EDUCATION

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- 2022 - now **Stanford University**  
Ph.D. Computer Science
- 2020-2021 **University of Chicago**  
M.S. Computer Science
- 2016-2020 **University of North Carolina at Chapel Hill**  
B.A. Media and Journalism, Computer Science

## RESEARCH EXPERIENCE

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- Sep 2022** | **Graduate Researcher, STANFORD UNIVERSITY, Stanford, CA**  
now *SHAPE Lab*. Advised by [Prof. Sean Follmer](#). CS co-advisor : Prof. James Landay  
In collaboration with *Virtual Human Interaction Lab* with [Prof. Jeremy Bailenson](#)  
Research topic : sensory augmentation, well-being
- May 2022** | **Research Intern, MICROSOFT RESEARCH, Redmond, WA**  
Aug 2022 *EPIC Group*. Advised by [Dr. Mar Gonzalez-Franco](#) and [Dr. Eyal Ofek](#)  
Research topic : embodiment, avatars, virtual reality
- June 2020** | **Graduate Researcher, UNIVERSITY OF CHICAGO, Chicago, IL**  
May 2022 *Human-Computer Integration Lab*. Advised by [Prof. Pedro Lopes](#)  
Collaborated with [Prof. Tanzeem Choudhury](#) at Cornell Tech  
Research topic : haptic illusion, virtual reality, mobile health
- Aug. 2018** | **Undergraduate Researcher, UNC-CHAPEL HILL, Chapel Hill, NC**  
May 2020 *Graphics and Virtual Reality Group*. Advised by [Prof. Henry Fuchs](#)  
Research topic : eyetracking for AR glasses

## PUBLICATION

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- [6] Embodying Physics-Aware Avatars in Virtual Reality.  
**Yujie Tao**, Cheng Yao Wang, Andrew D. Wilson, Eyal Ofek, Mar Gonzalez-Franco  
*In Proceedings of CHI 2023*. **Best Paper Honorable Mention Award**
- [5] Affective Touch as Immediate and Passive Wearable Intervention.  
Yiran Zhao\*, **Yujie Tao**\*, Grace Le, Rui Maki, Alexander Adams, Pedro Lopes, Tanzeem Choudhury.  
*In Proceedings of IMMUT 2023*. (\* euqal contribution)
- [4] Integrating Real-World Distractions into Virtual Reality.  
**Yujie Tao**, Pedro Lopes.  
*In Proceedings of UIST 2022*.
- [3] Altering Perceived Softness of Real Rigid Objects by Restricting Fingerpad Deformation.  
**Yujie Tao**, Shan-Yuan Teng, Pedro Lopes.  
*In Proceedings of UIST 2021*. **Best Paper Award & Best Demo Award**
- [2] DextrEMS : Achieving Dexterity in Electrical Muscle Stimulation by Combining it with Brakes.  
Romain Nith, Shan-Yuan Teng, Pengyu Li, **Yujie Tao**, Pedro Lopes.  
*In Proceedings of UIST 2021*. **People's Choice Demo Award**
- [1] Improved Vergence and Accommodation via Purkinje Image Tracking with Multiple Cameras for AR Eyeglasses.  
Conny Lu, Praneeth Chakravarthula, **Yujie Tao**, Steven Chen, Henry Fuchs.  
*In Proceedings of ISMAR 2020*.

## AWARDS & HONORS

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- 2023 Knight-Hennessy Scholar, Stanford University
- 2023 Best Paper Honorable Mention Award, ACM CHI 2023
- 2023 CS Service Award, Stanford University
- 2021 Best Paper Award, ACM UIST 2021
- 2021 Best Demo Award, ACM UIST 2021
- 2021 People's Choice Demo Award, ACM UIST 2021
- 2021 CRA-WP Grad Cohort for Women, Computing Research Association
- 2020 \$27,500 Merit Scholarship, University of Chicago
- 2019 GHC Scholar, Grace Hopper Conference
- 2019 Don and Barbara Curtis Excellence Fund, UNC-Chapel Hill

## PROFESSIONAL EXPERIENCE

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- May 2019** | **Product Manager Intern, MICROSOFT, Redmond, WA**  
Aug. 2019 | *M365*. Managed an internal tool for customer support vendors. Drove end-to-end implementations of three features to enhance tool reliability. Established collaboration with four teams across three organizations.
- June 2018** | **Product Manager Intern, MICROSOFT, Beijing, China**  
Aug. 2018 | *Bing News*. Managed a content ecosystem product. Conducted market research, proposed and prototyped for the product integration with Bing search. Collaborated with cross-functional team to realize V1 features.
- May 2017** | **Account Executive Intern, McCANN, Shanghai, China**  
July 2017 | *McCANN Health*. Clients : Johnson&Johnson, Baxter, Lilly, Cedars-Sinai, Gilead Sciences. Acted as liaison with internal teams and clients, driving strategy and creative development.

## OUTREACH & LEADERSHIP

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- Stanford HCI Lunch, Co-Host** SEP. 2023 - NOW  
Organize weekly speaker series for Human Computer Interaction Group.
- Stanford CS Ph.D. Admit Weekend, Co-Chair** JAN. 2023 - NOW  
Organize admission weekend events for prospective Ph.D. students.
- Stanford CS Student Applicant Support Program, Reader** NOV. 2022  
Provided feedback on application materials for Ph.D. applicants from underrepresented groups.
- UChicago Data and Computing Summer Lab, Graduate Coordinator** MAY. 2021 - AUG. 2021  
Hosted office hours and led skill trainings for 30+ undergraduate and high-school researchers.
- UChicago Ada Lovelace Week, Organizer** JUNE. 2020 - OCT. 2020  
Organized a speaker series to celebrate women and non-binary technologists.
- Pearl Hacks, VP of Marketing** AUG. 2018 - MAY. 2020  
Directed branding and creative development for this beginner-friendly hackathon with 300+ attendees each year.
- UNC Product Management Club, Founder & President** APR. 2019 - NOV.2019  
The first product community at UNC, aiming to introduce product management to a broader audience.
- Duke-UNC China Leadership Summit, Marketing Committee** NOV. 2017 - MAR. 2018  
Created marketing materials for the annual conference to foster conversation of Sino-US relations.

## TEACHING

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- Computer Science Research (CS 197), Teaching Assistant, Stanford University** SPRING 2023  
Develop course research projects and guide undergraduate students to get their first tastes of CS research.
- Web Development (MPCS 52553), Teaching Assistant, University of Chicago** WINTER 2022  
Hosted office hours and provided grading support for this graduate-level web programming class.

## MENTORING

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- 2023 Libby Ye, Undergrad in Design at Stanford  
2023 Jordan Egelman, Undergrad in Sociology at CU Boulder  
2021 Mehreen Ali, Undergrad in Bioengineering at UIC

## INVITED TALKS

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**The Future of Advanced User Interfaces - Best of ACM UIST, SIGGRAPH 2023** AUGUST 2023  
Hosted by Prof. David Lindlbauer.

## ACADEMIC SERVICE

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- Reviewer** UIST 2023, CHI 2022-23, DIS 2023, TEI 2023, Virtual Reality 2023, MobileHCI 2023, SUI 2023, ISWC 2023, SIGGRAPH Asia ETech 2023, SIGGRAPH Poster 2022  
**Committee** CHI Late Breaking Work 2023  
**Volunteer** UIST 2020, UbiComp 2020

## PRESS

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- 2023 **New Scientist**. "Wearable anti-anxiety device strokes your arm with a furry pompom"  
2023 **New Atlas**. "Arm-stroking wearable found to reduce perceived stress and anxiety"  
2022 **LifeWire**. "Blocking Sounds Could Help You Experience VR In a More Immersive Way"  
2021 **Hackster.io**. "Go Soft on Me"  
2021 **UChicago CS**. "Wearable Device That Changes Perception of Softness Wins Best Paper at UIST"