

# Yudai Tanaka

PhD student at University of Chicago  
Chicago, Illinois, United States

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## Education

<b>University of Chicago</b> Ph.D. Student in Computer Science, Advisor: Dr. Pedro Lopes	09/2020 – Present Chicago, United States
<b>University of Tokyo</b> Bachelor of Engineering in System Innovation, Advisor: Dr. Gjergj Dodbiba	04/2015 – 03/2020 Tokyo, Japan
<b>National University of Singapore</b> Exchange Student in University-Wide Student Exchange Program	08/2017 – 05/2018 Singapore

## Research and Work Experience

<b>Human Computer Integration Lab</b> , University of Chicago Research Assistant	09/2020 – Present Chicago, United States
<b>UCLA HCI Research</b> , University of California, Los Angeles VR/Haptics Specialist (Ex-Intern) advised by Dr. Xiang 'Anthony' Chen	07/2019 – 11/2020 Los Angeles, United States
<b>SMU HCI Research</b> , Singapore Management University Research Intern advised by Dr. Kotaro Hara	01/2019 – 04/2019 Singapore
<b>Information Somatics Lab</b> , University of Tokyo Research Intern advised by Dr. Masahiko Inami	06/2018 – 12/2018 Tokyo, Japan

## Full Paper Publications

- Electrical Head Actuation: Enabling Interactive Systems to Directly Manipulate Head Orientation.  
*In Proc. CHI' 22*, pg. 1-15. **Yudai Tanaka**, Jun Nishida, Pedro Lopes. Accepted with Minor Revision: Top 12.5%.
- DualVib: Simulating Haptic Sensation of Dynamic Mass by Combining Pseudo-Force and Texture Feedback.  
*In Proc. VRST' 20*, pg. 1-10. **Yudai Tanaka**, Arata Horie, Xiang 'Anthony' Chen. Acceptance Rate: 26.5%.

## Poster/Demo Publications

- BulkScreen: Saliency-Based Automatic Shape Representation of Digital Images with a Vertical Pin-Array Screen.  
*In Proc. TEI' 20*, pg. 461-466. **Yudai Tanaka**, Arakawa Riku, Hiromu Kawarasaki, Kiyosu, Maeda.
- A Formative Study for Record-time Manual Annotation of First-person Videos.  
*In Proc. MobileHCI' 19*, pg. 1-6. **Yudai Tanaka**, Sohei Wakisaka, Masahiko Inami. **Best Poster Award Honorable Mention**

## Honors and Awards

<b>Daniels Fellowship</b> (award for selected incoming Ph.D. students) One-time stipend of USD 15,000.	2020
<b>Nakajima Foundation Overseas Scholarship</b> (Japanese Ph.D. fellowship, <b>acceptance rate: 9%</b> ) Monthly stipend of JPY 200,000 ( $\approx$ USD 1,800) for two years.	2020
<b>Best Poster Award Honorable Mention</b> at ACM MobileHCI 2019	2019

## Teaching

<b>Teaching Assistant</b> CMSC 33240: Emergent Interface Technologies, University of Chicago CMSC 20300: Introduction to Human Computer Interaction, University of Chicago	Winter 2021 Fall 2020-2021
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## Service

<b>Reviewing</b> MobileHCI (Papers), IEEE VR (Journal Papers), CHI (Interactivity), EICS (Late Breaking Works) CHI (Papers) with <b>special recognition for outstanding reviews</b>	2021 2020
<b>Chairing</b> "Typing and Pointing" paper session at UIST	2021

## Technical Skills

**Programming Languages:** C++, C, Python  
**Software Tools:** Unity, TouchDesigner, OpenFrameworks, MATLAB, R  
**Hardware Tools:** Kicad, Arduino, Rhinoceros