

# Chia-Ming CHANG Ph.D.

Interaction Designer & HCI Researcher

# Profile

I grew up in Taipei and have lived in the UK for over 7 years (0.5 year in Finland). Currently, I have been living in Tokyo for around 6 years. I am an interaction designer and HCI researcher with interdisciplinary experiences from multiple countries 💽 🚰 🚟 💹. Since obtaining my Ph.D. in 2016, I have focused on conducting research in designing UI & UX for AI, particularly in the ares of self-driving cars and data annotation (machine learning).

# Professional Experiences

**Project Lecturer** (Project Assistant Professor, 2020.03 - 2021.12) IGARASHI Lab, Dept. of Creative Informatics, The University of Tokyo

- JST ACT-X, 2021-24 (a grant award for young researchers in Japan)
- AIP Challenge Researcher, 2020-21 (a grant award for young researchers in Japan) I am working on UI and UX for AI, particularly in the area of autonomous cars and machine learning (data annotation).

Tokyo, Japan

2020.03 - present

Hsinchu, Taiwan 2018.08 - 2020.01

#### **Assistant Professor**

Dept. of Communication and Technology, National Chiao Tung University

- MOST Special Outstanding Talent Award, 2018 (New Facuty Award in Taiwan) I created the Future Interaction Lab where we worked on future interfaces for human-AI communication from a design perspective.

#### **Postdoctoral Researcher**

IGARASHI Lab, Dept. of Creative Informatics, The University of Tokyo I worked on interface design for effective interaction between an autonomous car and a pedestrian.

# Tokyo, Japan

2016.10 - 2018.07

#### **Visiting Researcher**

Aalto Media Lab, School of Art, Design & Architecture, Aalto University I worked on mobile interaction design for specific user groups (e.g., deaf/hard of hearing and the elderly).

#### Helsinki, Finland

2015.09 - 2016.02

## Education

### **Nottingham Trent University**

PhD in Interaction Design, School of Art & Design [PhD Scholarship Award] My PhD project "Talk2Me" received several design awards in 2015.

#### Nottingham, UK

2011.05 - 2016.09

#### **University of the Arts London**

MA in Interactive Media, London College of Communication

#### London, UK 2005.10 - 2006.09

#### **National Taiwan University of Arts**

BA in Visual Communication Design, College of Design

#### Taipei, Taiwan 1998.09 - 2002.06

### Publications

Google Scholar (440 citations)

1 book chapter; 29 peer-reviewed journal/conference papers; 12 peer-reviewed posters/demos

# Three Main Papers

#### Can Eyes on a Car Reduce Traffic Accidents?

C.M. Chang, K.Toda, X. Gui, S.H. Seo and T. Igarashi

AutomotiveUI 2022 [cited by 23, Google Scholar] \*received more than 50 media coverage

## Spatial Labeling: Leveraging Spatial Layout for Improving Label Quality in Non-Expert **Image Annotation**

C. M. Chang, C. H. Lee and T. Igarashi CHI 2021 [cited by 19, Google Scholar]

### Eyes on a Car: an Interface Design for Communication between an Autonomous Car and a Pedestrian

C.M. Chang, K.Toda, D. Sakamoto and T. Igarashi

AutomotiveUI 2017 [cited by 227, Google Scholar] \*Red Dot Award: Design Concept 2017, Shortlisted

## JST ACT-X, Japan, 2021-24

AIP Challenge Researcher, Japan, 2020-21

MOST Research Grant, Taiwan, 2019-21

# Grants Design Awards

A' Design Award & Competition, Silver Winner. 2015

iF Student Design Award, Shortlisted. 2015

IxDA Interaction Awards, Shortlisted. 2015

# Teaching

#### Interaction Design, 2018-20, NCTU, Taiwan

Innovation & Design, 2018-19, NCTU, Taiwan

Student Thesis, 2018-20, NCTU, Taiwan

Student Thesis, 2020-now, UTokyo, Japan

# Professional Services

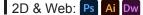
Chair: AutoUI 2023

Program Committee: CHI 2023-24; AutoUI 2021-2023

Reviewer: CHI 2018, 2021-2024; AutoUI 2020-2023;

MobileHCI 2019, 2021; DIS, 2019, 2022

# Skill Software



English (professional)

Language .....

Animation & Video: An Ae Pr

Chinese (native)

User Study & Usability Evaluation Quantitative & Qualitative Analysis

UI Design & UX Research

### 3D & VR/AR: 🔝 🕸

#### Japanese (basic+)

# References

Prof. Takeo Igarashi (my post-doc supervisor & current boss), The University of Tokyo, Japan, takeo@acm.org

Prof. Kumiyo Nakakoji (my ACT-X supervisor), Future University Hakodate, Japan, kumiyo@fun.ac.jp

Prof. David Downes (my Ph.D. supervisor), Nottingham Trent University, UK, david.downes02@ntu.ac.uk