

Catherine Ching-Ju Yu

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Education

University of California, Berkeley

Master of Information Management and Systems: GPA 3.9

Berkeley, CA

Aug, 2021 – May, 2023

Relevant Courses: UX Research, Quantitative Research, Data Structures and Analytics (Python), Information

Organization and Retrieval, Applied Machine Learning, Biosensory Computing

National Taiwan University

Taipei, Taiwan

Bachelor of Science in Psychology: GPA 3.6

Sep, 2015 – Jun, 2019

Relevant Courses: UX Design, Psychological Experiment, Statistics, Data Science Programming, Human Cognition

Projects

Effects of Picture Stimuli on the BCI P300 Speller

2021

Investigated how to improve the accuracy of BCI speller to assist paralyzed people with typing by thinking.

- A p300 speller detects the intersection with the maximum p300 signal to determine which character should be typed.
- Designed 2x2 experimental conditions to investigate the effect of color and picture on the accuracy of BCI speller; recruited 7 participants; analyzed and visualized EEG data using R and python; found that picture stimuli evoke a better performance compared with letter stimuli no matter the color of the stimuli.

Language and Information Architecture: A Study of English and Mandarin E-commerce Websites

2021

Research infers that different IA should be chosen when designing website for different culture users.

- Analyzed the IA, faceted categories, and taxonomies of 3 Mandarin and English e-commerce websites.
- Results infer that Mandarin webs prefer a flatter navigation structure and use more thematic relations and brands.

Can Older Adults' Acceptance Toward Robots be Enhanced by Observational Learning

2019

Through a mixed design approach, the experiment measures the effect of Observational Learning on the acceptance of technology between 40+ older adults and 40+ young people.

- Recruited 90+ participants; developed surveys for measuring explicit attitude; coded 2 computer cognitive tasks to measure implicit attitude using Python; analyzed and visualized data using R; filmed and produced video clips.
- Published research in the 22nd International Conference on Human-Computer Interaction (CHI).

i-Path: A Digital Biography for Preserving Older Adults' Wisdom

A digital biography system for assisting older adults with preserving their memory and improving mental health.

2019

- Uncovered users' insight by conducting 20+ in-depth interviews with older adults and designing surveys; analyzed interviews and questionnaires using R to provide summarized reports to the engineering team.
- Published research in the 3rd NTU-Tohoku U Symposium on Interdisciplinary AI and Human Studies.

Experience

UI UX Intern

Taipei, Taiwan

Source Code Inc.

Jan, 2021 – May, 2021

- Interviewed with clients; designed wireframes (UX design) and high-fidelity prototypes (UI design) using Adobe XD; designed usability testing process by developing surveys and interview drafts.
- Completed 2 web platform projects from scratch with clients' recognition with a 5 members team within 5 months.

Marketing Intern

Taipei, Taiwan

AVL Avance Venture Lab

Sep, 2020 – Jan, 2021

- Social Media Marketing: managed FB fan page by copywriting and designing pictures using Photoshop and Canva.
- Research: conducted market research and competitive analysis on the online language education industry.

Full-Time Research Assistant

Taipei, Taiwan

Center for Artificial Intelligence and Advanced Robotics, National Taiwan University

July, 2019 – June, 2020

- Led and cooperated with 2 engineers to accomplish a digitalized autobiography project; conducted usability testing with older adults and dementia patients; applied 5+ Institutional Review Board (IRB) for lab's research projects; organized interdisciplinary research regarding the combination of AI and psychology to write final projects

Skills and Tools

UX Research: Interview, Surveys, Usability Testing, Mixed Methods; **Programming Language:** Python, C#, R, Git, HTML, CSS; **Data Analysis & Visualization:** ANOVA, t-test, Regression, Ggplot2, Tidyverse, Numpy, Pandas, Matplotlib; **Design:** Adobe XD, Photoshop; **Language:** Mandarin(native), German(basic)