
Yu-Wen Pu 蒲郁文

Email: ywpu@cs.nctu.edu.tw · LinkedIn: <https://linkedin.com/in/ywpu> · Website: <https://ywpu.me>

SUMMARY

- Enjoying interdisciplinary learning and having taken courses in computer science and social sciences
- Having some experience in software development and human-centered design
- Passionate about designing digital services for communities and studying the relation between digital technology and civil society using empirical methods

SKILLS

- Technologies: HTML, CSS, JavaScript (ES6+), Vue, PHP, Python, R, SQL, Git, Linux, GCP
- User-centered product design process
- Conducting user interviews and experiments
- Data (text) analysis and visualization
- Information society studies (using empirical methods)

EXPERIENCE

Front-end Engineer, AJA Creative Design (Taiwan-based UX design agency) — June 2021 – Present

Managing an internal product, from planning and designing, to developing and launch; creating maximal value under limited resources

- Coordinates with executives to determine the scope, schedule, and resource of the project
- Conducts user interviews to identify their pain points and expectations
- Collaborates with designers to ideate solutions and produce user flows and wireframes
- Develops the front-end and the back-end
- Collects user feedback and analytics continually and iterates the product every 1–2 weeks
- The new product successfully improves colleagues' workflow, and colleagues say it has better user experience compared with the old one

Other projects and tasks:

- Builds front-end web applications
- Discusses technical feasibility and complexity with designers

- Organizes and runs design workshops with designers and researchers
- Conducts stakeholder interviews with designers and project managers

Research Assistant, National Center for High-performance Computing, National Applied Research Laboratories — Mar. 2019 – July 2019 (part-time)

Summer Intern, National Center for High-performance Computing, National Applied Research Laboratories — July 2018 – Aug. 2018

Project: Using Big Data to Analyze Gender Differences in Attitudes Toward Air Pollution Issues

- Studied and practiced text mining methods with R and tidyverse; helped refine a text mining book while studying
- Performed data collection, data cleaning, word segmentation, keyword extraction, topic extraction (document clustering), and sentiment analysis with Python, SciPy, R, and tidyverse

Discussion Facilitator, Department of Youth Affairs, Taoyuan City Government — July 2018 – Aug. 2018 (part-time)

Project: Participatory Budgeting in Fugang, Taoyuan

- Facilitated group discussions in citizens' assembly
- With my facilitation, local residents deliberated Fugang's tourism development plan smoothly

Summer Student – IT Staff, Tainan Manufacturing Center, Applied Materials Taiwan — July 2017 – Aug. 2017

Project: Designing and Developing a Web Client for a Production Monitoring System

- Worked with manufacturing engineers and managers to build a web app that can visualize real-time fab status, query data, post announcements, and control access according to user's privilege level
- Developed the front-end and the back-end

Summer Intern, Institute of Information Science, Academia Sinica — July 2016 – Aug. 2016

Project: Designing and Developing a Biodiversity Analysis Application

- Collaborated with teammates to build a GUI app that can import species occurrence datasets, visualize the spatial/temporal distribution of species, calculate the spatial/temporal relation between species, and find out the co-occurrences of species
- Developed with Python, SciPy, Qt (via PyQt)

EDUCATION

Master of Science (M.S.) in Computer Science, National Yang Ming Chiao Tung University — Sept. 2018 – Feb. 2021

GPA: 4.11

Master's Thesis: Designing an Interactive Interface That Facilitates Public Deliberation Based on Social Relations

- Conducted interviews to identify design directions of public deliberation technologies
- Developed an interactive prototype using front-end and back-end technologies
- Conducted an online discussion experiment to evaluate the efficacy and user experience of the proposed design (similar to an A/B test)

Project: Designing Culture Weaver, a Mobile Application for Preserving and Curating Local Culture and History, Through User-Centered Design Processes

- Worked with teammates to define a design problem, conduct stakeholder interviews, identify design requirements, create personas and scenarios, create wireframes, create mockups and prototypes with Figma, and conduct usability tests for design iterations

Project: Researching the User Experience of Gongqibubei, a Mobile Application for Learning English

- Worked with teammates and Hopenglish (the company behind Gongqibubei) to create an interaction map of the product; conduct user interviews, comparative (competitive) analysis, a survey, heuristic evaluations, and usability tests for the product

Program of Cultural Studies, National Yang Ming Chiao Tung University — Sept. 2018 – Feb. 2021

Took several courses in sociology, philosophy, and communication studies

Bachelor of Science (B.S.) in Computer Science, National Chiao Tung University — Sept. 2014 – June 2018

GPA: 3.93 (Class Rank: 5 out of 50)

Bachelor's Thesis: Analysis of Political Activities on Social Networking Sites

- Performed data collection, pre-processing, word segmentation, keyword/event extraction, document classification (positive or negative campaigning), and social network analysis with Python, Gephi, and PHP

AWARDS

Undergraduate Research Competition, Honorable Mention — Awarded by Department of Computer Science, National Chiao Tung University, Dec. 2017

My research project "Analysis of Political Activities on Social Networking Sites" received an honorable mention

Academic Achievement Award — Awarded by National Chiao Tung University, Apr. 2015

I ranked first in a class of 48 in the Fall 2014 semester

Application Design Contest, 2nd Place — Awarded by Information Technology Services Center, National Chiao Tung University, Sept. 2015 (with a team of 4)

Application Design Contest, 3rd Place — Awarded by Information Technology Services Center, National Chiao Tung University, Sept. 2014 (with a team of 4)

A full-stack web development contest that required teams to design and implement a web application according to a given specification within a limited time
