

## Yun-Chen (Jennifer) Hung

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Portfolio: <https://yunchen-hung.github.io/>

### RESEARCH INTERESTS

Cognitive Modeling, Visual Working Memory, Computational Neuroscience, Computer Vision

### EDUCATION

**Rutgers University–New Brunswick**, New Brunswick, NJ Sep 2025- Present

Ph.D., Cognitive Psychology, *Excellence Fellowship*

- **Advisor:** Dr. Qiong Zhang

**University of California, San Diego (UCSD)**, La Jolla, CA Sep 2021- June 2025

B.S., Data Science, *Magna Cum Laude*

cGPA: 3.95 / 4.00

B.S., *Cognitive Science with a Specialization in Neuroscience*, *Distinction in Cognitive Science*

- Cognitive Science Honors Thesis: Testing the Flexibility of Pupillary Working Memory Signals to Visual and Semantic Task Demands.  
(**Primary Advisor:** Dr. Anastasia Kiyonaga, **Secondary Advisor:** Dr. Tim Brady)
- Data Science Capstone: Exploring Working Memory Task Predictability using fMRI Data.  
(**Advisor:** Dr. Armin Schwartzman, Gabriel Riegner)

### TEACHING EXPERIENCE

#### Undergraduate Tutor

*Conduct exam review sessions, design homework, hold weekly office hours, grade assignments*

**Theoretical Foundations of Data Science II, UCSD**

Spring 2024

**Neuroanatomy and Physiology, UCSD**

Fall 2023

### RESEARCH EXPERIENCE

#### Undergraduate Research Assistant, UCSD

*Kiyonaga Lab, Dr. Anastasia Kiyonaga*

Feb 2024 – Present

- Investigated the relationship between visual Working Memory and pupil response/ oculomotor movements.
- Modified experiment on Psychopy, wrote scripts for probe generation and pupil data cleaning with Python.
- Presented independent senior thesis at 2 weekly lab meetings, and 30+ literature reviews at journal clubs.
- Proficiency in performing calibration of eye-tracking tools through collecting 100+ human subject data.

#### Undergraduate Research Assistant, UCSD

*Serences Lab, Dr. John Serences*

Mar 2023 – Jun 2024

- Devised experiment on unconscious serial dependence with Continuous Flash Suppression using Psychopy.
- Presented and hosted 3+ monthly cognitive neuroscience Journal Club.

#### Summer Intern, Neuroscience Program of Academia Sinica (NPAS)

*Tung Lab, Dr. Yi-Chung Tung*

Jul 2022 – Aug 2022

- Studied the migration and differentiation of neuroblastoma under an oxygen gradient.
- Presented research results in a presentation to 30+ summer interns and researchers of Academia Sinica.

### TECHNICAL EXPERIENCE

#### Machine Learning Intern, ActEarn

Wander Social App

Jun 2024 – Sep 2024

- Assisted in development of social app which matches energy-aligned individuals by their answers to given questions
- Developed an internal tool on React for executive team to easily edit and update 10,000+ questions and user answers stored in GCP Big Query and AWS DynamoDB, met engineering team weekly to meet demands
- Optimized database access speed for team members by 70%, worked with 5+ different APIs

#### Lab Assistant, UCSD

Qualcomm Institute Nano3 Cleanroom Jan 2022 – Jan 2024

- Proficient in training 30+ Nano3 users on tools (Heidelberg MLA 150, ellipsometers and mask aligners).
- Experience in making samples for prominent companies with dry etching using the Oxford Plasmalab 80, microfabrication with the EVG 620 Mask Aligner, and thin metal deposition with Denton Discovery 635.

## SKILLS & CERTIFICATIONS

### Programming Languages

Python, R, MATLAB, SQL, Java, HTML, CSS,  $\LaTeX$ , C++, JavaScript, Svelte

### Programming Tools

Spark, AWS, Git/GitHub, VS Code, IntelliJ

### Libraries

PyTorch, pandas, NumPy, Scikit-Learn, Dask, React, SciPy, StatsModel

### Neuroscience Tools

Psychopy, Eye tracking (Eyelink), ImageJ, Centrifuge, Microscopy

### Certifications

Collaborative Institutional Training Initiative (CITI) – Social & Behavioral Research

### Languages

Mandarin, English

### Others

Adobe Photoshop, Excel

## SERVICES & OUTREACH

### Halicioğlu Data Science Institute (HDSI) Student Council

Aug 2024 – June 2025

#### *Inaugural President*

- Led 20+ weekly meetings with 15 student council members to plan events for students, and established first official HDSI graduation stole.
- Interviewed 2+ Dean candidates for the School of Computing, Information, and Data Science (SCIDS).
- Expressed concerns about the data science program in the undergraduate program review.

### Data Science Student Society

Apr 2024 – Apr 2025

#### *DataHacks Co-Director*

- Facilitating a 200-person hackathon open to all majors and backgrounds.
- Connected with 20+ industry partners and the Halicioğlu Data Science Institute faculty for sponsorship.

### Global Ambassadors Program (GAP)

Jul 2024 – Sep 2024

#### *Undergraduate Student Mentor*

- Preparing international freshman students for university life in the US via preparing 4+ documentations.

## AWARDS & HONORS

- Excellence Fellowship, *Rutgers University* 2025-26
- Robert Glushko '79 Cognitive Science Honors Thesis Award, *UCSD* 2025
- Data Science Student Council Award, *UCSD* 2025
- Data Science Community Award, *UCSD* 2025
- Sponsorship to attend the annual Grace Hopper Celebration (GHC), *UCSD* 2024
- Provost Honors, *UCSD* 2021-2025

## PUBLICATIONS

1. Dong Y., **Hung Y.**, Kiyonaga A. Testing the Flexibility of Pupillary Working Memory Signals to Visual and Semantic Task Demands. 2025 (Manuscript Work In Progress)

## POSTER PRESENTATIONS

1. Dong, Y., **Hung, Y.**, Xie, C., Kiyonaga, A. (2025). Pupillary Signatures of Working Memory Content are Flexible to Visual vs. Semantic Task Demands. Poster presentation at Vision Sciences Society 2025.