

# HSIANG-CHEN YEH

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## EDUCATION

### Johns Hopkins University, Maryland, US

Aug 2024 – Present

Master of Science in Clinical Mental Health Counseling

- GPA: 3.96/4.0; JHU Merit Scholarship (\$16,600 to date; eligible for renewal)

### University of Colorado Boulder, Online, US

Aug 2024 – Present

Master of Science in Computer Science

- Relevant coursework in Machine Learning, Natural Language Processing, Generative AI
- GPA: 3.9/4.0

### Fu Jen Catholic University, Taipei, Taiwan

Sep 2020 – Jun 2024

Bachelor of Arts in Applied Arts and Clinical Psychology (Double Major Pursued)

- GPA: 4.0/4.0, ranked 1/62, graduated 1st in the department

## RESEARCH

### Research Assistant – Smile (Speech and Machine Learning) Lab (Adviser: Dr. Berrak Sisman)

Oct 2025 – Present

*Johns Hopkins University, Center for Language and Speech Processing (CLSP),  
Department of Electrical and Computer Engineering*

- Conduct research on speech-based depression detection and affective representation learning, integrating speech processing, deep learning, and mental health applications.
- Analyze prosodic, spectral, and linguistic features associated with emotional and depressive states across clinical and spontaneous speech corpora.
- Collaborate on multimodal modeling and annotation pipelines for emotion and mental state recognition within real-world communication contexts.
- **First Author.** Preparing a manuscript for submission to INTERSPEECH 2026, the premier international conference on speech and language processing.

### Research Assistant – REALM (Research on Experience and Action with Language Models) Lab (Adviser: Dr. Ryan L. Boyd)

Oct 2025 – Present

*University of Texas at Dallas, Department of Psychology*

- Processed multiple large-scale linguistic datasets (e.g., BPD MTurk, TED Talks, Blog Authorship Corpus) using AttributioNet, a fine-tuned RoBERTa model, via the blamegame package on the Milgram server to generate sentence- and person-level attribution predictions.
- Applied data quality filters (e.g.,  $\geq 5$ -sentence threshold) and implemented aggregation, language filtering, and reliability analyses to ensure consistency and reproducibility across datasets.
- Produced descriptive statistics and bivariate correlation matrices linking attributional language with validated psychological scales ( $r$ ,  $n$ ,  $p$ ).
- Organized project pipelines and outputs following a standardized structure (predictions, derived, figures) to support multi-dataset comparisons and longitudinal analyses.
- Currently assisting with expanding the corpus to include additional text- and speech-based sources for large-scale psycholinguistic modeling.

### Research Assistant – CCVL (Computational Cognition, Vision, and Learning) research group (Adviser: Dr. Zongwei Zhou; CCVL PI: Dr. Alan Yuille)

Aug 2025 – Present

*Johns Hopkins Whiting School of Engineering*

- Built a web-based CT viewer for large-scale medical imaging datasets (PanTS, 300GB+).
- Implemented interactive visualization: adjustable slice index, organ mask overlays (aorta, liver, pancreas, spleen, kidneys), and opacity controls.
- Added support for PNG, GIF, and video output, enabling efficient review and sharing of segmentation results.
- Integrated with PanTS dataset and prepared for online deployment (browser-accessible version).
- Collaborating with Dr. Zongwei Zhou's team to develop foundational tools for BodyMaps, supporting medical AI research and visualization.

May 2025 – Oct 2025

**Research Fellow – HCI+ (Adviser: Dr. Jiangtao Gong)**

*Tsinghua University (Institute for AI Industry Research, AIR; ranked #1 in Asia, Top 2 globally in Computer Science), supported by Microsoft Research Asia*

- Selected for a highly competitive international research program (100 chosen from ~550 global applicants) in Human–Computer Interaction and AI for mental wellbeing.
- **Led key aspects of a project integrating music, expressive writing, and AI to enhance self-efficacy, cognitive reappraisal, emotional regulation, and memory quality, including concept development, literature review, experimental design, construction of psychological scales and surveys, participant recruitment, study implementation, quantitative statistical analysis, theoretical framing, interpretation of findings, and manuscript preparation.**
- **Manuscript submitted and currently under review** at the ACM CHI Conference on Human Factors in Computing Systems (CHI 2026), the premier international venue for HCI research.

**Research Assistant – Trauma Intervention Research Team (Adviser: Dr. Tamar Rodney)**

Nov 2024 – Present

*Johns Hopkins University School of Nursing*

- Analyze linguistic patterns in trauma intervention and recovery.
- **First Author. Voicing the Unspoken: A Trauma-Informed Review of Linguistic, Technological, Psychological, and Structural Dimensions of Scam-Based Human Trafficking.** Manuscript under review at **Trauma, Violence & Abuse.**
- **First Author. Thesis in progress: Linguistically Driven Methods in Trauma Intervention and Mental Health Support**

**Research Assistant – Forensic Psychology Lab (Adviser: Dr. Chien Huang)**

Jun 2022 – Jun 2024

*Fu Jen Catholic University School of Medicine, Taipei, Taiwan*

- Conducted study design, data collection, and analysis for the Seminar on Psychopathology of Juvenile Delinquency and the Psychology of Trauma and Stress Coping.
- **First Author. Thesis title: Effects of Moral Disengagement, Deindividuation, and Reduced Self-Control on the Linguistic Features of Hate Speech within Social Media**  
Awarded research funding by the National Science and Technology Council (NSTC), Taiwan, through the competitive Research Grant for University Students program (~30% acceptance rate).
- **Thesis title: Cognitive Load and the Linguistic Features of Prosocial Lying**  
Presented a poster at the Annual Conference of the Taiwanese Association of Clinical Psychology.

**Research Assistant – Counseling Research Team (Adviser: Dr. Norma Day-Vines)**

Oct 2024 – Present

*Johns Hopkins University School of Education*

- Conduct analyses and contribute to research on relationship between counselors' attitudes towards social dominance and broaching behaviors.
- **Thesis in progress: An Investigation of the Relationship Between Mental Health Providers' Social Attitudes and Their Self-Reported Broaching Orientation**

**Researcher – Wellcheq (Adviser: Dr. Jody Miller)**

Jan 2025 – Present

*Wellcheq · Maryland, United States · Remote*

- Conducting research on cross-cultural and developmental differences in stigma, suicide, and mental well-being, with a focus on age-related patterns between children and adults.
- Analyzing global mental health trends to inform the design of personalized digital interventions and preventive support strategies.
- Supporting the development and evaluation of WellCheq, a digital platform for assessing and enhancing mental health and well-being across diverse populations.
- **Created two school-based intervention guides. How to Support Students with Depression and Creating a Sense of Belonging in the Classroom,** translating mental health research into practical strategies that promote early recognition, trauma-informed support, and emotional well-being among children and adolescents.

**Research Assistant – AI for Resilient Communities Lab (Adviser: Dr. Benjamin Huynh)**

Mar 2025 – July 2025

*Johns Hopkins Bloomberg School of Public Health*

- Selected and hired to support research on public health responses to online scam-based human trafficking.
- Conducted in-depth literature reviews and synthesizing findings into a narrative review on global intervention strategies.
- Assisted with data analysis and manuscript preparation for peer-reviewed publications on digital fraud and health equity.

## PROFESSIONAL EXPERIENCES

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|---|----------------------------|
| <b>Student Group Convener – Taiwanese Psychological Association</b> <ul style="list-style-type: none"><li>Planned psychology lectures, designed promotional materials, hosted psychology seminars, and liaised with speakers.</li></ul>   | <b>Oct 2022 – Oct 2024</b> |
| <b>Co-Developer – Tsai City Innovation Center, Yale University</b> <ul style="list-style-type: none"><li>Developing a psychological tool integrating AI, emotional wellbeing, and VR, with a focus on user engagement, digital interventions, and accessibility for diverse populations.</li></ul>  | <b>Feb 2025 – Present</b>  |
| <b>Chair – Student Mental Health and Wellbeing Committee, Chi Sigma Iota (CSI), JHU Lambda Chapter</b> <ul style="list-style-type: none"><li>Appointed by the 2024–2025 Board to lead student wellbeing initiatives within CSI, an international counseling honor society. Coordinate mental health programming, peer engagement, and wellness outreach.</li></ul>  | <b>May 2025 – Present</b>  |
| <b>Brand Development Intern – ExeBrain</b> <ul style="list-style-type: none"><li>Assisted with documentary filming, developed brand strategies, and executed marketing campaigns. Engaged in content creation such as video editing for YouTube, managed social media, and contributed to graphic design and podcast production. Handled administrative duties and collaborated on projects related to psychology and neuroscience.</li></ul> | <b>May 2025 – Present</b>  |
| <b>Sleep Support Web App – “Did You Fall Asleep Tonight?”, Fu Jen Catholic University UI/UX Certificate Project</b> <ul style="list-style-type: none"><li>Co-developed a web app prototype to support users with insomnia through mood-based feedback, mindfulness activities, and narrative design.</li><li>Built using HTML, CSS, JavaScript, and Python Flask.</li></ul>   | <b>Feb 2023 – Jun 2023</b> |
| <b>Art and Violin teacher – Xianyin Music Studio</b> <ul style="list-style-type: none"><li>Planned and taught lessons to elementary school students.</li></ul>  | <b>Jul 2023 – Aug 2023</b> |

## AWARDS

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|--|-----------------|
| • <b>Research Grant for University Students, National Science and Technology Council</b>   | <b>Jun 2023</b> |
| • <b>Finalist, 31st International Times Young Creative Awards in the Historical, Cultural, and Creative Product Design Categories</b><br>Accessible at link: <a href="https://www.timesawards.com.tw/">https://www.timesawards.com.tw/</a> | <b>Jun 2022</b> |

## SKILLS

### Research

- Digital Mental Health · Broaching Behavior · Qualitative & Quantitative Research · Experimental Design · Survey Design · Data Analysis

### Technical Skills

- Python · R · LIWC-based Text Analysis · NLP · Machine Learning (Supervised/Unsupervised, Deep Learning) · App Prototyping

### Design & Visual Tools

- Adobe Illustrator · Photoshop · Canva · 3D Modeling (Rhinceros)

### Artistic & Performance

- Dance: Ballet · Classical Chinese Dance
- Music: Violin · Piano · Soprano (JHU Student Chamber Choir, Gospel Choir, Pingtung Youth Choir)
- Theater: Assistant Technical Director (*Twelfth Night*, JHU Barnstormers, 2024)

### Craft & Fine Arts

- Sketching · Watercolor · Illustration · Metalwork · Sculpting

### Language

- Mandarin(Native) · Japanese(N1) · English(Fluent)

## EXHIBITIONS

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|---|-----------------|
| <b>Young Designers' Exhibition – "Freak'in Walk"</b><br><i>Taipei Nangang Exhibition Center, Taipei, Taiwan</i> <ul style="list-style-type: none"><li>Captured the various challenges pedestrians face on the streets and presented them in a visually engaging fashion show.</li><li>Accessible at link: <a href="https://freakinwalk.netlify.app/">https://freakinwalk.netlify.app/</a></li></ul> | <b>May 2024</b> |
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