

CHI-YANG HSU

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EDUCATION

University of Texas at Austin

Present

School of Information

PhD in Information Studies

– **Advisor:** Ying Ding

Penn State University

Class of 2021

Department of Information Sciences and Technology

Master of Science

– **Advisor:** Ting-Hao (Kenneth) Huang

Penn State University

Class of 2019

Department of Information Sciences and Technology

Bachelor of Science

CONFERENCE PUBLICATIONS

- 1. Thought Graph: Generating Thought Process for Biological Reasoning**
Chi-Yang Hsu, Kyle Cox, Jiawei Xu, Zhen Tan, Tianhua Zhai, Mengzhou Hu, Dexter Pratt, Tianlong Chen, Ziniu Hu, Ying Ding
Published in WebConf Short 2024
- 2. Learning to Rank Visual Stories From Human Ranking Data**
Chi-Yang Hsu, Yun-Wei Chu, Vincent Chen, Kuan-Chieh Lo, Chacha Chen, Ting-Hao K. Huang, Lun-Wei Ku,
Published in ACL 2022 (8 pages) [\[PDF\]](#)
- 3. Plot and Rework: Modeling Storylines for Visual Storytelling**
Chi-Yang Hsu, Yun-Wei Chu, Ting-Hao K. Huang, Lun-Wei Ku,
Published in ACL-IJCNLP 2021 Findings (8 pages) [\[PDF\]](#)
- 4. Stretch-VST: Getting Flexible With Visual Stories**
Chi-Yang Hsu, Yun-Wei Chu, Tsai-Lun Yang, Ting-Hao (Kenneth) Huang, Lun-Wei Ku
Published in ACL-IJCNLP 2021 Demo [\[Video\]](#) [\[Demo\]](#)
- 5. Using Tweets to Assess Mental Well-being of Essential Workers During the COVID-19 Pandemic**
Johnna Blair, Chi-Yang Hsu, Ling Qiu, Shih-Hong Huang, Ting-Hao (Kenneth) Huang, Saeed Abdullah. Published in CHI LBW 2021 [\[ACM DL\]](#)[\[PDF\]](#)[\[NEWS\]](#)
- 6. Knowledge-Enriched Visual Storytelling**
Chao-Chun Hsu, Zi-Yuan Chen, Chi-Yang Hsu, Chih-Chia Li, Tzu-Yuan Lin, Ting-Hao 'Kenneth' Huang, Lun-Wei Ku. Published in AAAI 2020 [\[PDF\]](#)
- 7. Navigating Ride-Sharing Regulations: How Regulations Changed the 'Gig' of Ride-Sharing for Drivers in Taiwan**
Anita Chen, Chien-Wen Yuan, Ning F. Ma, Chi-Yang Hsu, Benjamin V. Hanrahan. Published in CHI 2019 [\[ACM DL\]](#)[\[PDF\]](#)

WORKSHOP PUBLICATIONS

1. **Let's Talk! Striking Up Conversations via Conversational Visual Question Generation**
Shih-Han Chan, Tsai-Lun Yang, Yun-Wei Chu, Chi-Yang Hsu, Ting-Hao Huang, Yu-Shian Chiu, Lun-Wei Ku. Published in AAAI 2021 Workshop (Deep-Dial 2021) [\[PDF\]](#)
2. **Ameliorating Farmer Suicides by Predicting Crop Price Trends using a Deep Learning Approach**
Maryam Tabar, Chi-Yang Hsu, Hangzhi Guo, Amirreza Bagherzadehkhosrassani, Amulya Yadav. Published in ECAI Workshop (AI4EQ 2020) [\[PDF\]](#)

RESEARCH EXPERIENCE

University of Texas at Austin – AI Health Lab

August 2023 – present

NLP Research Intern – Supervised by Prof. Ying Ding

- Developed and analyze various LLM frameworks for Bioinformatics to perform gene set analysis, such as biological process, assessing their accuracy, specificity and uncertainty.

University of Washington – Behavioral Data Science Group

July 2021 – June 2022

NLP Research Intern – Supervised by Prof. Tim Althoff

- Patient Health Questionnaire (PHQ-9) prediction for virtual platform conversations: Predict PHQ through conversations, and conduct thorough analyses to comprehend the change in PHQ based on linguistic features of clients and therapists.

Academia Sinica – NLPSA Lab (中研院, 台灣)

May 2019 - June 2021

NLP Research Assistant – Supervised by Dr. Lun-Wei Ku

- Visual Storytelling: Designed novel knowledge graph-integrated visual story generation frameworks. The proposed frameworks generate more diverse, coherent, human-like stories. In addition, we also designed tailored evaluation metrics for visual storytelling.

Penn State University – Crowd-AI Lab

August 2019 - June 2021

Lab Member – Supervised by Prof. Ting-Hao (Kenneth) Huang

- Essential Workers Mental Well-being Assessment: Assessed 1752 essential workers mental health well-being during COVID-19. Collected tweets and conducted sentiment and behavioral analyses, compared against regular users.
- Visual Storytelling: Collaborated with Dr. Lun-Wei Ku from Academia Sinica.

ACADEMIC ACTIVITIES

Conference Presentations

- “Learning to Rank Visual Stories From Human Ranking Data” ACL’22. Poster
- “Plot and Rework: Modeling Storylines for Visual Storytelling” ACL-IJCNLP Finding ’21. Video
- “Stretch-VST: Getting Flexible With Visual Stories” ACL-IJCNLP Demo ’21. Video
- “Using Tweets to Assess Mental Well-being of Essential Workers During the COVID- 19 Pandemic” CHI LBW ’21. Poster
- “Knowledge-Enriched Visual Storytelling” AAAI ’19. Poster

Peer Reviewer

- The Annual Conference on Innovative Applications of Artificial Intelligence (IAAI’22)