

ETHAN HSU

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EDUCATION

Penn State University

Master of Information Sciences and Technology
College of Information Sciences and Technology

Class of 2021

Penn State University

Bachelor of Science in Information Sciences and Technology
College of Information Sciences and Technology

Class of 2019

PUBLICATIONS

Plot and Rework: Modeling Storylines for Visual Storytelling

Chi-Yang Hsu, Yun-Wei Chu, Ting-Hao (Kenneth) Huang, Lun-Wei Ku,
To appear in ACL-IJCNLP 2021 Findings (8 pages) [\[Paper\]](#)

Stretch-VST: Getting Flexible With Visual Stories

Chi-Yang Hsu, Yun-Wei Chu, Tsai-Lun Yang, Ting-Hao (Kenneth) Huang, Lun-Wei Ku
To appear in ACL-IJCNLP 2021 Demo [\[Video\]](#) [\[Demo\]](#)

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 [\[ACM DL\]](#)[\[PDF\]](#)[\[NEWS\]](#)

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 [\[arXiv\]](#)

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 PAPERS

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) [\[PDF\]](#)

Ameliorating Farmer Suicides by Predicting Crop Price Trends using a Deep Learning Approach

Maryam Tabar, Chi-Yang Hsu, Hangzhi Guo, Amirreza Bagherzadehkhorsani, Amulya Yadav. Published in ECAI Workshop (AI4EQ 2020) [\[PDF\]](#)

RESEARCH AND WORK EXPERIENCE

Academia Sinica – NLPSA (中研院, 台灣)

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

May 2019 - June 2021

- Researched in natural language generation and evaluation in Visual Storytelling.

Penn State University – Crowd-AI Lab

August 2019 - June 2021

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

- Researched in natural language generation and evaluation in Visual Storytelling.
- Researched in Applications of NLP in pandemic and disaster related topics.

Penn State University

August 2019 - December 2020

Instructional Assistant for IST 361: Application Development Design Studio

- Sole grader for application proposals, Unified Modeling Language(UML) designs, and Java Model-View-Control programming.

Interserv International Inc

May 2018 - August 2018

Game Development Internship

- Developed a candy-crush-like game using Unity/C#, Python and JSON.
- Researched and Developed a Deep Reinforcement Learning (Deep-Q-Network) to build an automated play-testing AI.

TECHNICAL STRENGTHS AND CERTIFICATIONS

Machine Learning Programming

Pytorch, Tensorflow, Scikit-learn

Machine Learning Techniques

Nature Language Processing, Vision-to-Language, Knowledge Graph and Relation Extraction, Time Series Prediction

Computer Languages

Python, Java, C#, Linux, Latex, HTML, CSS.

Other Technical Skills

Human Center Design, Human Center Interaction.