

Hsiu-Yu Yang

PH.D. CANDIDATE · LANGUAGE-AND-VISION | COMMONSENSE KNOWLEDGE AND REASONING

Urbanstrasse 92, 70190, Stuttgart

✉ contact.hsiuyu.yang@gmail.com | 🌐 github.com/Mallory24 | 🔗 www.linkedin.com/in/hsiu-yu-yang

Education

University of Stuttgart

PH.D. CANDIDATE

Germany

April 2021 - June 2024

- Thesis Topic: Learning Commonsense Knowledge from the Visual World.
- Supervisors: Juni.-Prof. Dr. Carina Silberer (main), Prof. Dr. Andreas Bulling

University of Stuttgart

M.SC. IN COMPUTATIONAL LINGUISTICS

Germany

2018 - 2021

- Thesis Title: Generating Explanations for Deep Learning Models in Natural Language Inference.
- Master Thesis Student at Bosch Center for Artificial Intelligence (BCAI)
- Supervisors: Hendrik Schuff, Dr. Heike Adel, and Prof. Dr. Thang Vu

National Taipei University

B.A. IN FOREIGN LANGUAGES AND APPLIED LINGUISTICS

Taiwan

2012 - 2016

- GPA: 3.91/4.00

Publications

PUBLISHED

Hsiu-Yu Yang and Carina Silberer. 2023. Implicit Affordance Acquisition via Causal Action-Effect Modeling in the Video Domain. In Proceedings of the 13th International Joint Conference on Natural Language Processing and the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics.

Esra Dönmez*, Pascal Tilli*, **Hsiu-Yu Yang***, Thang Vu and Carina Silberer. 2023. HNC: Leveraging Hard Negative Captions towards Models with Fine-Grained Visual-Linguistic Comprehension Capabilities. In the SIGNLL Conference on Computational Natural Language Learning.

Hsiu-Yu Yang and Carina Silberer. 2022. Are Visual-Linguistic Models Commonsense Knowledge Bases? In Proceedings of the 29th International Conference on Computational Linguistics, pages 5542–5559, Gyeongju, Republic of Korea. International Committee on Computational Linguistics.

Hendrik Schuff, **Hsiu-Yu Yang**, Heike Adel, and Ngoc Thang Vu. 2021. Does External Knowledge Help Explainable Natural Language Inference? Automatic Evaluation vs. Human Ratings. In Proceedings of the Fourth BlackboxNLP Workshop on Analyzing and Interpreting Neural Networks for NLP, pages 26–41, Punta Cana, Dominican Republic. Association for Computational Linguistics.

IN PREP

Enhance LLMs' Procedural Knowledge via In-Context Learning with Video-minded Task Graphs.

Academic Achievements

2021 **2nd position for Fill-in-the-blank fashion complementary outfit product retrieval competition**, Vision Understanding and Machine Intelligence Summer School (VISUM)

Presentations

CONTRIBUTED TALKS

[Tentative] *Implicit Affordance Acquisition via Causal Action-Effect Modeling in the Video Domain*. Feb 09 2023. A talk that I will give at the reading sessions of Cognitive Systems Research Group, University of Göteborgs.

Teaching Experience _____

WS 20/21 **Statistical Dependency Parsing at the Institute of Computational Linguistics (IMS),**
Teaching Assistant

M.Sc. Thesis Supervision _____

2023-Now **Mindong Liu**, Augment LLMs with Visual Knowledge for Commonsense Reasoning Tasks.

Outreach & Professional Development _____

SERVICE AND OUTREACH

2022 **Invited Prof. Yonatan Bisk (CMU) for the Colloquium Talk at IMS**, Host

PEER REVIEW

2023 **Linguistic Insights from and for Multimodal Language Processing Workshop**, Reviewer

2023 **EMNLP**, Emergency Reviewer

2023 **EACL**, Emergency Reviewer

References _____

Main **Juni.-Prof. Dr. Carina Silberer**, Institute for Natural Language Processing, University of
Supervisor Stuttgart
Second **Prof. Dr. Andreas Bulling**, Human-Computer Interaction and Cognitive Systems Institute
Supervisor for Visualization and Interactive Systems, University of Stuttgart