JINGNONG QU

Seattle, WA
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EDUCATION

University of Washington September 2024-Present
Ph.D. in Linguistics (Computational Track)

University of California, Los Angeles September 2022-June 2024
M.S. in Computer Science

University of California, Los Angeles August 2018-June 2022
B.S. in Computer Science Summa Cum Laude
B.A. in Linguistics & Computer Science Summa Cum Laude

PUBLICATION

- Jingnong Qu, Liunian Harold Li, Jieyu Zhao, Sunipa Dev, and Kai-Wei Chang. 2022. Disinfomeme: A multimodal dataset for detecting meme intentionally spreading out disinformation (arXiv preprint)

- Haoyi Qiu, Kung-Hsiang Huang*, Jingnong Qu*, and Nanyun Peng. 2024. AMRFact: Enhancing summarization factuality evaluation with AMR-driven negative samples generation

**Equal contribution*

RESEARCH EXPERIENCE

UCLA NLP April 2021-Present
Researcher Group led by Professor Kai-Wei Chang

- Conducted research in classification of multi-modal internet memes using state-of-the-art NLP models
- Devised data augmentation methods for summary evaluation using Abstract Meaning Representation (AMR)
- Utilized platforms including Google Cloud, AWS, and Amazon MTurk

EMPLOYMENT

Reader

- Introduction to Machine Learning (COM SCI M146) Fall 2021
- Natural Language Processing (COM SCI 188) Winter 2022, Fall 2022

Teaching Assistatnt

- Introduction to Study of Language (LING 1) Spring 2022
- Introduction to Linguistic Analysis (LING 20) Winter 2024
- Semantics I (LING 120C) Spring 2024

RELEVANT COURSEWORK

Semantic Theory, Syntactic Theory, Mathematical Structures in Language, Pragmatic Theory, General Phonetics, Phonology, Natural Language Processing (Lecture and Seminar), Natural Language Generation (Seminar), Automated Reasoning: Theory and Applications

SKILLS

Programming languages	Python, C/C++, Java, Javascript, MariaDB, Haskell, OCaml, Lisp
Natural languages	Mandarin (Native), English (Fluent), German (Elementary), French (Elementary)
Tools	PyTorch, Pandas, Git, Docker, AWS, Google Cloud, MTurk, LaTeX, Praat

SELECTED PROJECTS

A Study of the Semantics and Syntax of Unconditionals June 2024

- Uncovered new data of Mandarin unconditionals
- Extended previous syntactic and semantic analysis using Hamblin semantics
- Proposed an analysis in dynamic semantics for unconditionals

AMRFact: Enhancing Summarization Factuality Evaluation with AMR-Driven Negative Samples Generation June 2024

- Proposed a new summarization factuality evaluation metric that achieved state-of-the-art performance.
- Devised and implemented schemes to operate on AMR to create semantically contradictory sentences.
- Provided more explainability for the decision of the machine learning model.

DisinfoMeme: A Dataset for Detecting Memes Intentionally Spreading Out Disinformation June 2022

- Constructed a dataset from memes Reddit posts
- Utilized Amazon Mechanical Turk for annotation
- Tested the dataset on popular vision-language machine learning models
- Composed a conference paper to report the results and findings from the dataset

A Study of the Sounds of New Shanghainese August 2021

- Investigated the phonetic properties of new Shanghainese by working with a native speaker of Shanghainess
- Analyzed the waveforms and spectrograms of the words produced by the speaker using Praat
- Inferred the reasons of the differences between the speaker's dialect and existing literature
- Composed a paper to report the results and findings

Tense Anchoring in Chinese: A Literature Review August 2021

- Reviewed tense anchoring, a phenomenon on the interface of syntax and semantics, in Mandarin
- Raised a problem from a corner case with data from a native speaker of Mandarin
- Proposed a hypothesis that accounts for the corner case
- Composed a paper to report the results and findings

Painting to Prose: Text Generation from Images March 2021

- Built a program that generates a piece of literature from a visual art piece
- Worked with a partner to generate painting caption using Conceptual Captions by Google
- Utilized skip-thought vectors to generate a paragraph from painting captions

Naive Parsing of Context Free Grammars October 2020

- Implemented a parser generator for context free grammars in OCaml
- Practiced functional programming with an intellectually challenging problem
- Laid foundation for functional programming computational linguistics projects