JON Z. CAI

Ph.D. Student in Computer Science

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EXPERIENCE

Research Assistant

Toyota Technological Institute at Chicago

2016 – 2018 Advisor: Prof. Kevin Gimpel

Natural language understanding; Chinese language model

Research Assistant

CU Boulder

2018 - Now Advisor: Prof. James Martin

Semantic parsing; computational semantics.

PROJECTS

Abstract Meaning Representation

amr, semantics, parsing, transformers

- Julia Bonn, Martha Palmer, Zheng Cai, and Kristin Wright-Bettner. *Spatial AMR: Expanded Spatial Annotation in the Context of a Grounded Minecraft Corpus* LREC2020
- Jon Cai, Shafiuddin Ahmed, Julia Bonn, Kristin Wright-Bettner, Martha Palmer, James Martin *CAMRA: Copilot for AMR Annotation* EMNLP2023

Text Classification

machine learning, classification

- Zheng Cai, Lifu Tu, and Kevin Gimpel. *Pay Attention to the Ending:Strong Neural Baselines for the ROC Story Cloze Task* ACL2017
- Vivian Lai, Zheng Cai, and Chenhao Tan. *Many Faces of Feature Importance: Comparing Built-in and Post-hoc Feature Importance in Text Classification* EMNLP2019

Language Model

language model, word embeddings

- Falcon Dai and Zheng Cai.*Glyph-aware Embedding of Chinese Characters.* SCLeM2017
- Falcon Dai and Zheng Cai. *Towards Near-imperceptible Steganographic Text* ACL2019 Best Paper Nominee

Dialogue

dialogue act, speaker intention

- Jon Cai, Brendan King, Margaret Perkoff, Shiran Dudy, Jie Cao, Marie Grace, Natalia Wojarnik, Ananya Ganesh, James Martin, Martha Palmer, Marilyn Walker, Jeff Flanigan *Dependency Dialogue Acts – Annotation Scheme and Case Study* IWSDS2023

EDUCATION

Xi'an Jiaotong University

Physics

2008 - 2012

University of Chicago

Physics & Computer Science

2014 - 2016

University of Colorado Boulder

Computer Science

2018 - Now

SKILLS

Programming Languages

Python JavaScript/TypeScript C

Frameworks

Pytorch Flask Django React Tensorflow

TEACHING

- Software engineering and project management
- Algorithms

COURSES

- Machine Learning
- Natural Language Processing
- Advanced Robotics
- Algorithms
- Computational Lexical Semantics
- Computational Physics
- Computational Complexity Theory
- Neural Networks and Deep Learning
- Object Oriented Design
- Computer Graphics

HOBBY

Tennis Rock Climbing