

Zheng(Jon) Cai

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SUMMARY

I'm a Ph.D. student working with Professor James H. Martin in the Computational Semantics Lab in the University of Colorado Boulder. My research interest lies in machine learning, computational semantics and metaphor.

EDUCATION

THE UNIVERSITY OF COLORADO BOULDER

PH.D. STUDENT

Computer Science
Boulder, CO

THE UNIVERSITY OF CHICAGO

MASTER OF SCIENCE

Computer Science
Chicago, IL

XI'AN JIAOTONG UNIVERSITY

BACHELOR OF SCIENCE

Physics
Xi'an China

LINKS

Github: [Jonbean](#)
Linkedin: [ZhengCaiJon](#)
PersonalWeb: [joncaizheng](#)

COURSEWORK

GRADUATE

Algorithms
Computer Graphics
Computational Physics
Computational Semantics
Deep Learning and Neural Networks
Machine Learning
Natural Language Processing

SKILLS

PROGRAMMING

Language:
Python • C • C++ • Javascript • \LaTeX

Familiar:

Pytorch • Tensorflow • Theano • OpenAI gym • OpenNMT • Node.js • Django

EXPERIENCE

NATIONAL TIMING CENTER | PULSAR GROUP

June 2011 – August 2011 | Xi'an, CHINA

- Data Analysis work to find Pulsar and timing through pulse signals.
- Building general relativity correction model for pulsar through simulation.

TOYOTA TECHNOLOGICAL INSTITUTE AT CHICAGO | RESEARCH

ASSISTANT

August 2016 – December 2017 | Chicago, IL

- Work with Professor Kevin Gimpel on Natural Language Processing researches using machine learning.

TEACHING

SENIOR PROJECT | TEACHING ASSISTANT

- Work with teams to complete real-world software engineering projects from industry, research and faculty sponsor.

ALGORITHMS | TEACHING ASSISTANT

- Provide recitations for the fundamentals of algorithms and various algorithmic strategies

PUBLICATIONS & RESEARCH

NATURAL LANGUAGE PROCESSING | NATURAL LANGUAGE UNDERSTANDING

- Zheng Cai, Lifu Tu, Kevin Gimpel
- Pay Attention to the Ending: Strong Neural Baselines for the ROC Story Cloze Task.
- In proceedings of ACL 2017, Vancouver, Canada.

NATURAL LANGUAGE PROCESSING | REPRESENTATION LEARNING

- Falcon Dai, Zheng Cai
- Glyph-aware Embedding of Chinese Characters
- In proceedings of EMNLP Subword & Character Level Models in NLP workshop, Copenhagen, Denmark.

NATURAL LANGUAGE PROCESSING APPLICATION | LANGUAGE MODELING

- Falcon Z. Dai, Zheng Cai
- Towards Near-imperceptible Steganographic Text
- In proceedings of ACL 2019, Florence, Italy.

MACHINE LEARNING MODEL ANALYSIS | FEATURE IMPORTANCE ANALYSIS

- Vivian Lai, Jon Z. Cai, Chenhao Tan
- Many Faces of Feature Importance: Comparing Built-in and Post-hoc Feature Importance in Text Classification
- EMNLP 2019