YU CAO

Computational Linguist

San Jose, CA

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PROFESSIONAL PROFILE

Linguistics Specialized in computational linguistics, seman-

tics, syntax, discourse analysis. Strong critical-

thinking and problem-solving skills.

Computation Expertise in NLP/NLU modeling and machine

learning algorithms. 15+ years of experiences in

algorithms and data structures.

EXPERIENCES

Applied Researcher

eBay

11/2021 - present

San Jose, CA

- Worked at Content, Item and Inventory Understanding Team.
- Built and evaluated models for understanding listing qualities.

Ontology Linguist

Facebook via PRO Unlimited

10/2019 10/2019

Redmond, WA

- Worked at Assistant Cross-Functional Group.
- Prototyped cross-domain semantic parsing models for question answering.
- Automated inferences in OWL 2 ontology knowledge graphs.

Teaching Assistant

Rutgers University

1 09/2018 - 08/2020

♀ New Brunswick, NJ

• Courses taught: Intro to Linguistic Theory, Invented Languages.

Research Assistant

The Chinese University of Hong Kong

12/2014 - 07/2015

♥ Hong Kong, China

- Worked at Center for Sign Linguistics and Deaf Studies.
- Provided linguistic expertise in developing Chinese grammatical knowledge assessment software.

EDUCATION

Rutgers University

Ph.D. in Linguistics

10/2021 10/2021

New Brunswick, NJ

The Chinese University of Hong Kong

M.A. in Chinese Linguistics & Language Acquisition

1 09/2013 - 06/2014

♦ Hong Kong, China

Sichuan Normal University

B.A. in Teaching Chinese as a Second Language

1 09/2009 - 06/2013

♦ Chengdu, China

PUBLICATIONS

 Plurality and quantification in graph representation of meaning (C code)
Doctoral dissertation on arXiv:2112.06448.
Yu Cao.

Advisor: Simon Charlow.

Automated fact-value distinction in court opinions

European Journal of Law and Economics 2020. Yu Cao, Daniel Chen & Elliot Ash. Automated classification of fact vs. value statements in written judicial decisions.

 Investigating BERT's knowledge of language: Five analysis methods with NPIs Proceedings of EMNLP 2019.

Alex W., Yu Cao & 14 others.

Supervisor: Sam Bowman.

Role: constructed and conducted the main transfer learning experiments.

SKILLS

Technical

- Python, C, Scikit-learn, PyTorch, Tensorflow
- Linguistic analysis, symbolic logic, statistics

ML/NLP Coursework

Natural language processing

Introduction to deep learning (?)

Machine learning

Seminar: Linguistic knowledge in reusable sentence encoders

Languages

ENG (fluent) CHN (native) JPN (JLPT N1)