

Yichao(Joey) Zhou

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Research Interests

- Low resource information extraction and text mining
 - Information extraction with auxiliary supervision and word knowledge
 - Clinical case report annotation, indexing, and curation ([CREATe Demo](#))
 - Zero-shot semi-structured information extraction from web documents
 - Robustness in NLP
 - Adversarial attack detection and recovery
 - Representation Learning in NLP
 - Gender neutral embedding learning
 - Pronunciation-enhanced embedding for humor detection
 - Knowledge acquirement for Ads targeting and creative design
 - Conversion prediction and user funnel stage recognition
 - Cross-modal text generation and ranking approaches for Ad creative refinement
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Education

University of California, Los Angeles	LOS ANGELES, CA, US
Ph.D candidate in Computer Science (Information & Data Management)	2016 – Now
University of California, Los Angeles	LOS ANGELES, CA, US
MS degree in Electrical Engineering (Signals & Systems) GPA:3.8/4.0	2015 – 2017
Southeast University	NANJING, JIANGSU, P.R.CHINA
BS degree in Electronics Engineering GPA:3.8/4.0	2011 – 2015

Experiences

Google Research	MOUNTAIN VIEW, CA, US
Research Intern	2020 Summer
YAHOO! Research	SUNNYVALE, CA, US
Research Intern	2018, 2019 Summer
HELLA Co.	LIPPSTADT, NRW, GERMANY
Optical Design Intern for Undergraduate Thesis	2014 Winter and Spring

Skills

Programming Languages: Python, C++ Deep Learning Platform: TensorFlow, PyTorch

Selected Publications and Patents

Publications

- **Yichao Zhou**, Ying Sheng, Nguyen Vo, Nick Edmonds, Sandeep Tata, Simplified DOM Trees for Transferable Attribute Extraction from Web Documents, *The Web Conference*, **Submitted to KDD2021**.
- **Yichao Zhou**, Yu Yan, J. Harry Caufield, Kai-Wei Chang, Yizhou Sun, PeiPei Ping, Wei Wang, Clinical Temporal Relation Extraction with Probabilistic Soft Logic Regularization and Global Inference, *The 35th AAAI Conference on Artificial Intelligence*, **AAAI2021**.
- **Yichao Zhou**, Wei-Ting Chen, Bowen Zhang, David Lee, J. Harry Caufield, Kai-Wei Chang, Yizhou Sun, PeiPei Ping, Wei Wang, CREATe: Clinical Report Extraction and Annotation Technology, *IEEE 37th International Conference on Data Engineering*, (Demo), **ICDE2021**.
- Rujun Han, **Yichao Zhou**, Nanyun Peng, Domain Knowledge Empowered Structured Neural Net for End-to-End Event Temporal Relation Extraction, *The 2020 Conference on Empirical Methods in Natural Language Processing*, **EMNLP2020**.

- **Yichao Zhou**, Jyun-yu Jiang, Jieyu Zhao, Kai-Wei Chang, Wei Wang, “The Boating Store Had Its Best Sail Ever’: Pronunciation-attentive Contextualized Pun Recognition”, *2020 Annual Conference of the Association for Computational Linguistics, ACL2020*.
- **Yichao Zhou**, Shaunak Mishra, Manisha Verma, Narayan Bhamidipati, Wei Wang, “Recommending Themes for Ad Creative Design via Visual-Linguistic Representations”, *The Web Conference, WWW2020*.
- Cheng Zheng, Jyun-Yu Jiang, **Yichao Zhou**, Sean D. Young, Wei Wang, “Social Media User Geolocation via Hybrid Attention”, *The 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR2020*.
- J. Harry Caufield, **Yichao Zhou**, Yunsheng Bai, David Liem, Garlid, A., Kai-Wei Chang, Yizhou Sun, Wei Wang, Peipei Ping, “Resources for comprehensive information extraction and data integration in biomedicine”, *28th Conference on Intelligent Systems for Molecular Biology, (Poster), ISMB2020*.
- **Yichao Zhou**, Shaunak Mishra, Jelena Gligorić, T. Bhatia, Narayan Bhamidipati, “Understanding Consumer Journey using Attention based Recurrent Neural Networks”, *SIGKDD Conference on Knowledge Discovery and Data Mining, KDD2019*.
- **Yichao Zhou***, Jyun-yu Jiang*, Kai-Wei Chang, Wei Wang, “Learning to Discriminate Perturbations for Blocking Adversarial Attacks in Text Classification”, *2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing, EMNLP-IJCNLP2019*.
(* equal contribution)
- **Yichao Zhou**, J. Harry Caufield, Yizhou Sun, Peipei Ping, David Liem, D. Sigdel, Kai-Wei Chang, Wei Wang, “Learning Structured Knowledge from Clinical Case Reports”, *27th Conference on Intelligent Systems for Molecular Biology and 18th European Conference on Computational Biology, (Poster), ISMB/ECCB2019*.
- Jieyu Zhao, **Yichao Zhou**, Zeyu Li, Wei Wang, Kai-Wei Chang, “Learning Gender-Neutral Word Embedding”, *Conference on Empirical Methods in Natural Language Processing, EMNLP2018*.
- Tan Patrick, **Yichao Zhou**, Xinxin Huang, Wei Wang, “AZTEC: A Cloud-based Computational Platform to Integrate Biomedical Resources”, *IEEE 33rd International Conference on Data Engineering, (Demo), ICDE17*.

Patents

- S. Mishra, R.H Tang, **Yichao Zhou**, V.R.Raithatha, L.N. Buamidipati, M. Abasi, S. Ravindran, “Stage-based content item selection and transmission”, 2020

Professional Activities

Program Chair/Committee/Reviewer:

- Chair: NAACL 2021 Publication Chair
- PC member: NAACL 2021, AAAI 2021, KDD 2020, AACL 2020
- Journal Reviewer: Transactions on Knowledge and Data Engineering 2019
- Conference Sub-Reviewer: KDD 2017, ICDM 2017 2019, HealthNLP 2018, EMNLP 2019

Teaching Assistant Experiences

- UCLA 2020 Winter & Spring, David Smallberg, Data structure and Algorithm (C++)
- UCLA 2019 & 2020 Fall, Dr. Todd Millstein, Principles & Practices of Computing (Python)
- UCLA 2018 Fall, Dr. Kai-Wei Chang, Machine Learning
- UCLA 2018 Winter, Dr. Wei Wang, Data Mining

Honors, Awards, and Scholarships

- EMNLP 2019, SIGKDD 2019 Student Volunteer/Travel Award
- UCLA Graduate Division Fellowships, 2018 2019 2020
- Excellent Undergraduate Thesis (2.7%), Southeast University, 2015