

# Muhao Chen

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## Research Interests

*Natural Language Understanding and Knowledge Acquisition.*

## EDUCATION

### University of California, Los Angeles, USA

*Ph.D., Department of Computer Science*

2014.9-2019.6

*Dissertation: Multi-relational Representation Learning and Knowledge Acquisition*

*Advisor: Carlo Zaniolo, Distinguished Professor of Computer Science, N.E. Friedmann Chair in Knowledge Science*

*Collaborators:*

- Kai-Wei Chang, Assistant Professor of Computer Science
- Wei Wang, Leonard Kleinrock Chair Professor of Computer Science
- Yizhou Sun, Associate Professor of Computer Science
- Alex Bui, Professor of Radiological Sciences

### Fudan University, Shanghai, China

*B.S. in Computer Science. Advisor: X. Sean Wang*

2010.9-2014.6

## PUBLICATIONS

\*Indicating equal contributions. ✉Indicating contact authors of journal publications.

### Tutorials

1. **Muhao Chen**, Hongming Zhang, Qiang Ning, Manling Li, Heng Ji, Kathleen McKeown, Dan Roth. Event-centric Natural Language Processing. In **ACL**, 2021.
2. **Muhao Chen**, Hongming Zhang, Qiang Ning, Manling Li, Heng Ji, Dan Roth. Event-centric Natural Language Understanding. In **AAAI**, 2021.
3. Jay Pujara, Pedro Szekely, Huan Sun, **Muhao Chen**. From Tables to Knowledge: Recent Advances in Table Understanding. In **KDD**, 2021.
4. **Muhao Chen**, Kai-Wei Chang, Dan Roth. Recent Advances in Transferable Representation Learning. In **AAAI**, 2020.

### Refereed Publication in Conference Proceedings

5. Fangyu Liu, **Muhao Chen**, Dan Roth, Nigel Collier. Visual Pivoting for (Unsupervised) Entity Alignment. In *the 35<sup>th</sup> AAAI Conference on Artificial Intelligence (AAAI)*, 2021.
6. Cunchao Zhu, **Muhao Chen**, Changjun Fan, Guangquan Cheng, Yan Zhang. Learning from History: Modeling Temporal Knowledge Graphs with Sequential Copy-Generator Networks. In *the 35<sup>th</sup> AAAI Conference on Artificial Intelligence (AAAI)*, 2021.
7. **Muhao Chen**, Weijia Shi, Ben Zhou, Dan Roth. Cross-lingual Entity Alignment with Incidental Supervision. In *the 16<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, 2021.
8. Xuelu Chen\*, Michael Boratko\*, **Muhao Chen**, Shib Sankar Dasgupta, Xiang Li, Andrew McCallum. Probabilistic Box Embeddings for Uncertain Knowledge Graph Reasoning. In *the 19<sup>th</sup> Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2021.
9. Zequn Sun, **Muhao Chen**, Wei Hu. Knowing the No-match: Entity Alignment with Dangling Cases. In *Proceedings of the 59<sup>th</sup> Annual Meeting of the Association for Computational Linguistics (ACL)*, 2021.
10. Peifeng Wang, Filip Ilievski, Muhao Chen, Xiang Ren. Do Language Models Perform Generalizable Commonsense Inference? In *Proceedings of the 59<sup>th</sup> Annual Meeting of the Association for Computational Linguistics (ACL) - Findings*, 2021.

11. Fei Wang, Kexuan Sun, **Muhao Chen**, Jay Pujara, Pedro Szekely. Retrieving Complex Tables with Multi-Granular Graph Representation Learning. In *Proceedings of the 44<sup>th</sup> ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2021.
12. Minh Pham, Craig Knoblock, **Muhao Chen**, Binh Vu, Jay Pujara. SPADE: A Semi-supervised Probabilistic Approach for Detecting Errors in Tables. In *Proceedings of the 30<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI)*, 2021
13. **Muhao Chen**, Hongming Zhang, Haoyu Wang, Dan Roth. “What Are You Trying to Do?” Semantic Typing of Event Processes. In *Proceedings of the 24<sup>th</sup> SIGNLL Conference on Computational Natural Language Learning (CoNLL)*, 2020. **Best Paper Nomination**
14. Zequn Sun, **Muhao Chen**, Wei Hu, Chengming Wang. Knowledge Association with Hyperbolic Representation Learning of Knowledge Graphs. In *Proceedings of the 25<sup>th</sup> Conference on Empirical Methods in Natural Language Processing (EMNLP)* 2020.
15. Haoyu Wang, **Muhao Chen**, Hongming Zhang, Dan Roth. Joint Constrained Learning for Event-Event Relation Extraction. In *Proceedings of the 25<sup>th</sup> Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
16. Hongming Zhang, **Muhao Chen**, Haoyu Wang, Y. Song, Dan Roth. Analogous Process Structure Induction for Sub-event Sequence Prediction. In *Proceedings of the 25<sup>th</sup> Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
17. Xuelu Chen, **Muhao Chen**, Changjun Fan, Ankith Uppunda, Yizhou Sun, Carlo Zaniolo. Multilingual Knowledge Graph Completion via Ensemble Knowledge Transfer. In *Proceedings of the 25<sup>th</sup> Conference on Empirical Methods in Natural Language Processing (EMNLP) - Findings*, 2020.
18. Zequn Sun, Chengming Wang, Wei Hu, **Muhao Chen**, Jian Dai, Wei Zhang, Yuzhong Qu. Knowledge Graph Alignment Network with Gated Multi-hop Neighborhood Aggregation. In *the 34<sup>th</sup> AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
19. Changping Meng, **Muhao Chen**, Jie Mao, Jennifer Neville. ReadNet: A Hierarchical Transformer Framework for Readability Analysis. In *the 42<sup>nd</sup> European Conference on Information Retrieval (ECIR)*, 2020.
20. Junheng Hao, Chelsea J. T. Ju, **Muhao Chen**, Yizhou Sun, Carlo Zaniolo, Wei Wang. Bio-JOIE: Joint Representation Learning of Biological Knowledge Bases. In *the 11<sup>th</sup> ACM Conference on Bioinform., Comput. Bio. and Biomed. (ACM BCB)*, 2020 (**Best Student Paper Award**, ~0.8%)
21. Tianran Zhang, **Muhao Chen**, Alex Bui. Diagnostic Prediction with Sequence-of-sets Representation Learning for Clinical Events. In *Proceedings of the 18<sup>th</sup> International Conference on Artificial Intelligence in Medicine (AIME)*, 2020
22. **Muhao Chen**, Yingtao Tian, Haochen Chen, Kai-Wei Chang, Steve Skiena, Carlo Zaniolo. Learning to Represent Bilingual Dictionaries. In *Proceedings of the 23rd SIGNLL Conference on Computational Natural Language Learning (CoNLL)*, 2019
23. Junheng Hao, **Muhao Chen**, Wenchao Yu, Yizhou Sun, Wei Wang. Universal Representation Learning of Knowledge Bases by Jointly Embedding Ontological Concepts and Instances. In *Proceedings of the 25<sup>th</sup> ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2019.
24. Xuelu Chen, **Muhao Chen**, Weijia Shi, Yizhou Sun, Carlo Zaniolo. Uncertain Knowledge Graphs Embeddings. In *the 33<sup>rd</sup> International Conference on Artificial Intelligence (AAAI)*, 2019.
25. **Muhao Chen**<sup>\*</sup>, Weijia Shi<sup>\*</sup>, Pei Zhou, Kai-Wei Chang. Retrofitting Contextualized Word Embeddings with Paraphrases. In *Proceedings of the 24th Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2019.
26. Pei Zhou, Weijia Shi, Jieyu Zhao, Kuan-Hao Huang, **Muhao Chen**, Ryan Cotterell, Kai-Wei Chang. Examining Gender Bias in Languages with Grammatical Gender. In *Proceedings of the 24th Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2019.
27. **Muhao Chen**, Chris Quirk. Embedding Edge-attributed Relational Hierarchies. In *Proceedings of the 42<sup>nd</sup> ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2019.
28. Qingheng Zhang, Zequn Sun, Wei Hu, **Muhao Chen**, Lingbing Guo, Yuzhong Qu. Multi-view Knowledge Graph Embedding for Entity Alignment. In *Proceedings of the 28<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI)*, 2019. Also in **ISWC 2020** Invited Sister Conference Track.
29. Zequn Sun, Jiacheng Huang, Wei Hu, **Muhao Chen**, Yuzhong Qu. TransEdge: Translating Relation-contextualized Embeddings for Knowledge Graphs. In *the 18<sup>th</sup> International Semantic Web Conference (ISWC)*, 2019.
30. Haochen Chen, Syed Fahad Sultan, Yingtao Tian, **Muhao Chen**, Steven Skiena. Fast and Accurate Network Embeddings via Very Sparse Random Projection. In *Proceedings of the 28<sup>th</sup> ACM International Conference on Information and Knowledge Management (CIKM)*, 2019.

31. Changjun Fan, Yuhui Ding, Li Zeng, **Muhao Chen**, Yizhou Sun and Zhong Liu. Learning to Identify High Betweenness Centrality Nodes from Scratch: A Novel Graph Neural Network Approach. In *Proceedings of the 28<sup>th</sup> ACM International Conference on Information and Knowledge Management (CIKM)*, 2019.
32. **Muhao Chen**, Changping Meng, Gang Huang, Carlo Zaniolo. Learning to Differentiate Between Main-articles and Sub-articles in Wikipedia. In *IEEE International Conference on Big Data (BigData)*, 2019.
33. Yingtao Tian, Haochen Chen, Bryan Perozzi, **Muhao Chen**, Xiaofei Sun, Steven Skiena. Social Relation Inference via Label Propagation. In *the 41<sup>st</sup> European Conference on Information Retrieval (ECIR)*, 2019.
34. Qi Zhao, **Muhao Chen**, Pengyuan Du, Tuan Le, Mario Gerla. Towards Efficient Cellular Traffic Offloading via Dynamic MPTCP Path Configuration with SDN. In *IEEE International Conference on Computing, Networking and Communications (ICNC)*, 2019.
35. **Muhao Chen**, Gang Huang, Changping Meng, Carlo Zaniolo. Neural Article Pair Modeling for Wikipedia Sub-article Matching. In *the 29<sup>th</sup> European Conference on Machine Learning (ECML)*, 2018 (**Plenary Presentation**, ~1.7% acceptance rate)
36. **Muhao Chen**, Yingtao Tian, Kai-Wei Chang, Steven Skiena, Carlo Zaniolo. Co-training Embeddings of Knowledge Graphs and Entity Descriptions for Cross-lingual Entity Alignment. In *the 27<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI)*, 2018.
37. **Muhao Chen**, Yingtao Tian, Xuelu Chen, Zijun Xue, Carlo Zaniolo. On2Vec: Embedding-based Relation Prediction for Ontology Population. In *Proceedings of the 17<sup>th</sup> SIAM International Conference on Data Mining (SDM)*. SIAM, 2018
38. Haochen Chen, Xiaofei Sun, Yingtao Tian, Bryan Perozzi, **Muhao Chen** and Steven Skiena. Enhanced Network Embeddings via Exploiting Edge Labels. In *the 27<sup>th</sup> ACM Conference on Information and Knowledge Management (CIKM)*. ACM 2018.
39. Pengyuan Du, Seunghyun Yoo, Qi Zhao, **Muhao Chen**, Mario Gerla. Towards Opportunistic Resource Sharing in Mobile Social Networks - an Evolutionary Game Theoretic Approach. In *Proceedings of the 19<sup>th</sup> ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, ACM 2018.
40. **Muhao Chen**, Qi Zhao, Pengyuan Du, Carlo Zaniolo, Mario Gerla. Demand-driven Cache Allocation Based on Context-aware Collaborative Filtering. In *Proceedings of the 19<sup>th</sup> ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, ACM 2018.
41. **Muhao Chen**, Yingtao Tian, Mohan Yang, Carlo Zaniolo. Multilingual Knowledge Graph Embeddings for Cross-lingual Knowledge Alignment. In *Proceedings of the 26<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI)*. 2017.
42. **Muhao Chen**, Carlo Zaniolo. Learning Multi-faceted Knowledge Graph Embeddings for Natural Language Processing. In *Proceedings of the 26<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI)*. 2017 (Extended abstract)
43. **Muhao Chen**, Shi Gao, X. Sean Wang. Converting Spatiotemporal Data Among Heterogeneous Granularity Systems. In *Proceedings of the 25<sup>th</sup> IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*. IEEE, 2016. Shorter version in *Proceedings of the 31<sup>st</sup> ACM SIGAPP Symposium on Applied Computing (SAC)*. ACM, 2016.

## Refereed Journal Publication

44. Jyun-Yu Jiang, Chelsea J.-T. Ju, Junheng Hao, **Muhao Chen**, Wei Wang. Circular RNA Prediction based on Junction Encoders and Deep Interaction among Splice Sites. To appear in *Bioinformatics*, Oxford University Press, 2021. Proceedings of **ISMB/ECCB**, 2021.
45. Guangyu Zhou\*, **Muhao Chen**<sup>✉</sup>, Chelsea J. T. Ju\*, Zheng Wang, Jyun-Yu Jiang, Wei Wang<sup>✉</sup>. Mutation effect estimation on protein-protein interactions using deep contextualized representation learning. *NAR Genom. Bioinform*, vol. 2 (2). Oxford University Press. 2020.
46. Zequn Sun, Qingheng Zhang, Wei Hu<sup>✉</sup>, Chengming Wang, **Muhao Chen**, Chengkai Li, Yuzhong Qu. A Benchmarking Study of Embedding-based Entity Alignment for Knowledge Graphs. *Proceedings of the VLDB Endowment (PVLDB)*, vol. 13. ACM. 2020
47. **Muhao Chen**<sup>✉</sup>, Chelsea J. T. Ju\*, Guangyu Zhou, Tianran Zhang, Kai-Wei Chang, Carlo Zaniolo, Wei Wang. Multifaceted Protein-Protein Interaction Prediction Based on Siamese Residual RCNN. *Bioinformatics*, vol. 35 (14) Oxford University Press. Proceedings of **ISMB/ECCB**, 2019.
48. Carlo Zaniolo<sup>✉</sup>, Shi Gao, Maurizio Atzori, **Muhao Chen**, Jiaqi Gu. User-Friendly Temporal Queries on Historical Knowledge Bases. *Information and Computation*, Vol. 259 (3). Elsevier, 2018.

## Refereed Workshop and System Demonstration Papers

Chen, Muhao – CV (May 22, 2021)

49. Weijia Shi, **Muhao Chen**, Yingtao Tian, Kai-Wei Chang. Learning Bilingual Word Embeddings Using Lexical Definitions. In *Proceedings of ACL Workshop on Representation Learning for NLP (RepL4NLP)*, 2019.
50. Zhubo Deng, Pei Zhou, Weijia Shi, **Muhao Chen**, Kai-Wei Chang. Computational Analysis of French-origin Reborrowing Process for English Loanwords. In *ICDM Workshop on Multilingual Cognitive Services (ICDMW)*, 2019
51. Changjun Fan, Yizhou Sun, Li Zeng, Yang-Yu Liu, **Muhao Chen**, Zhong Liu. Dismantle Large Networks through Deep Reinforcement Learning. In *ICLR Workshops*, 2019.
52. Pei Zhou, **Muhao Chen**, Kai-Wei Chang, Carlo Zaniolo. Quantification and Analysis of Scientific Language Variation by Research Fields. In *Proceedings of the ICDM Workshops (ICDMW)*, 2018.
53. **Muhao Chen**, Tao Zhou, Pei Zhou, Carlo Zaniolo. Multi-graph Affinity Embeddings for Multilingual Knowledge Graphs. **Contributed talk** in the *6th Workshop on Automated Knowledge Base Construction at NIPS (AKBC)*. 2017.
54. Tao Zhou, **Muhao Chen**, Demetri Terzopoulos, Jie Yu. Attention-based Natural Language Person Retrieval. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*. IEEE, 2017.
55. Shi Gao, **Muhao Chen**, Maurizio Atzori, Carlo Zaniolo. SPARQL<sup>T</sup> and its User-Friendly Interface for Managing and Querying the History of Knowledge Bases. In *the 14<sup>th</sup> International Semantic Web Conference (ISWC)*, 2015 (demo).

## PRESENTATIONS

### Invited talks, colloquia and tutorials

1. Event-Centric Natural Language Understanding. *Half-day Tutorial at ACL*. Aug, 2021. (Scheduled)
2. From Tables to Knowledge: Recent Advances in Table Understanding. *Half-day Tutorial at KDD*. Aug, 2021 (Scheduled)
3. Understanding Event Processes in Natural Language. *Invited talk, IBM Research Almaden*. July, 2021 (Scheduled)
4. Understanding Event Processes in Natural Language. *Invited talk, Department Seminar, Nanjing Univ.* June, 2021.
5. Understanding Event Processes in Natural Language. *Invited talk, NLP Seminar, NUS*. May, 2021.
6. Understanding Event Processes in Natural Language. *Invited talk, NLP Seminar, The Ohio State University*. May, 2021
7. Understanding Event Processes in Natural Language. *Invited talk, CS Research Colloquium, UCSB*. April, 2021
8. Understanding Event Processes in Natural Language. *Invited talk, Frontier Topics in Vision and Language, Arizona State University*. Mar, 2021.
9. Event-Centric Natural Language Understanding. *Half-day Tutorial at AAAI*. Feb, 2021.
10. Understanding Event Processes in Natural Language. *Invited talk at Language Technology Seminar, University of Cambridge*. Nov 2020
11. Understanding Event Processes in Natural Language. *Invited talk at Machine Learning and Big Data Seminar, UCLA*. Nov 2020
12. Knowledge Acquisition with Transferable Representation Learning. *CS Research Colloquium, USC*. Nov 2020
13. Event-Centric Commonsense Understanding. *CKG Lunch Talk, USC ISI*. Aug 2020
14. Recent Advances in Transferable Representation Learning. *Half-day tutorial at AAAI*. NYC, NY, Feb 2020.
15. Knowledge Acquisition with Transferable Representation Learning. *AI Seminar, USC ISI*. Los Angeles, Jan 2020.
16. Knowledge Acquisition with Transferable Representation Learning. *IBM Research Almaden*. San Jose, Jan 2020.
17. Knowledge Acquisition with Transferable Representation Learning. *Invited talk at FDSiF, Fudan Univ., Shanghai, China*. Dec 2019.
18. Multi-relational representation learning and knowledge acquisition. *Invited talk at SNAP Seminar, Stanford University*. Jan 2019
19. Multi-relational representation learning and knowledge acquisition. *Machine Learning and Big Data Seminar, UCLA*. Jan 2019
20. Neural Article Pair Modeling for Wikipedia Sub-article Matching. *Google Search Intelligence Seminar Talk*. Sept 2017
21. Reasoning Across Multiple Spatiotemporal Granularity Systems. *Invited talk at Teradata Labs, El Segundo, CA, USA*. Mar 2015

### Conference talks

22. Cross-lingual Entity Alignment with Incidental Supervision. *Conference talk at EACL*. April 2021
23. “What Are You Trying To Do?” Semantic Typing of Event Processes. *Conference talk at CoNLL*. Nov 2020

Chen, Muhao – CV (May 22, 2021)

24. Event Schema Instantiation as Knowledge Graph Alignment. *PI meeting (KAIROS), DARPA*. June 2020.
25. Retrofitting contextualized word embeddings with paraphrases. *Conference talk at EMNLP. Hong Kong, China*. Nov 2019
26. Cross-lingual Dependency Parsing with Unlabeled Auxiliary Languages. *Conference talk at CoNLL. Hong Kong, China*. Nov 2019
27. Neural Article Pair Modeling for Wikipedia Sub-article Matching. *Plenary talk at ECML. Dublin, Ireland*. Sept 2018
28. Co-training Embeddings of Knowledge Graphs and Entity Descriptions for Cross-lingual Entity Alignment. *Conference talk at IJCAI. Stockholm, Sweden*. July 2018
29. On2Vec: Embedding-based Relation Prediction for Ontology Population. *Conference talk at SDM. San Diego, CA, USA*. May 2018
30. Multilingual Knowledge Graph Embeddings for Cross-lingual Knowledge Alignment. *Contributed talk at AKBC. Longbeach, CA, USA*. Dec 2017
31. Multilingual Knowledge Graph Embeddings for Cross-lingual Knowledge Alignment. *Conference talk at IJCAI. Melbourne, Australia*. Aug 2017
32. Converting Spatiotemporal Data Among Heterogeneous Granularity Systems. *Conference talk at FUZZ-IEEE. Vancouver, Canada*. Aug 2016

## PROFESSIONAL EXPERIENCE

University of Southern California

2020.8-date

- **Assistant Research Professor**, Department of Computer Science
- **AI Division Researcher**, Information Science Institute

University of Pennsylvania, Philadelphia, PA (CogCompGroup)

2019.8-2020.7

- **Postdoctoral Fellow**, Hosted by Dan Roth, Eduardo D. Glandt Distinguished Professor of Computer and Information Science
- *DARPA KAIROS and DARPA BETTER Programs*

Microsoft Research, Redmond, WA (NLP Group)

2018.6-2018.9

- **Research Intern**, *Embedding Edge-attributed Relational Hierarchies*. [26]

Google, Mountain View, CA (Google Knowledge Graph)

2017.6~2017.9

- **Research Intern**, *Neural Article Pair Modeling for Large-scale Sub-article Relation Extraction*. [34,31,18]

Google, Mountain View, CA (Procella Real-time Data Infrastructure)

2016.6~2016.9

- **System SDE Intern**, *Dynamic Shard-partitioning for Large-scale Windowed Event Streams*.

Teradata Labs, Los Angeles, CA (Optimizer Group)

2015.6~2015.9

- **R&D Intern**, *Multi-task Learning for Cost-based Database Optimizers*.

## SELECTED AWARDS

*SIGBio ACM-BCB Best Student Paper Award* 2020

*UCLA Dissertation Fellowship*. 2018-2019

*Google Research & Travel Support Archimedes Program*. 2018

*NSF Travel Grants*. 2016, 2017, 2018, 2019

*Research Grant of the National University Student Innovation Program*. Ministry of Education of China. 2014

*Tung OOCL Scholarships*. Tung's Foundation of Hong Kong & The Oriental Overseas Container Line. 2012, 2013

*Wang-Dao Fellowship*. President of Fudan University. 2013

*EMC Scholarship*. EMC Inc. 2013

*Chun-Tsung Fellowship*. Hui-Chun Chin and Tsung-Dao Lee Chinese Undergraduate Research Endowment. 2012



## TEACHING AND MENTORING EXPERIENCE

### PhD Committee Members

Minh Pham, USC PhD Student in Computer Science. Committee Chair: Craig Knoblock

Xuelu (Shirley) Chen, UCLA PhD Student in Computer Science. Committee Chair: Carlo Zaniolo

**Mentoring** (Publications by undergraduate and master's mentees are highlighted)

Eric (Ehsan) Qasemi, USC PhD Student in Computer Science. **PhD Advisor** 2020.10-date

Wenxuan Zhou, USC PhD Student in Computer Science. **PhD Advisor** 2020.10-date

Fei Wang, USC MS Student in Computer Science. **Research mentor** (First-author publication in SIGIR'21) 2020.9-date

Leshang Chen, UPenn PhD Student in Computer and Information Science. **Research mentor** 2020.2-date

Haoyu Wang, UPenn MS Student in Computer and Information Science. **Research mentor** (First-author publication in EMNLP'20, co-authored another two EMNLP'20 and CoNLL'20 papers) 2019.9-2020.7

Tianran Zhang, UCLA PhD student in Bioengineering. **Research mentor** 2019.6-date

Junheng Hao, UCLA PhD student in Computer Science. **Research mentor** 2017.10-2019.9

Xuelu (Shirley) Chen, UCLA PhD student in Computer Science. **Research mentor** 2017.10-2020.11

Pei Zhou, UCLA undergraduate student (Now PhD student at USC CS). **Research mentor** (First-author publications in EMNLP'19 and ICDMW'18. Coauthored paper in AKBC'18) 2019.12-2019.6

Weijia Shi, UCLA undergraduate student (Now PhD student at UW CSE). **Research mentor** (First-author publications in EMNLP'19 and Repl4NLP'19. Coauthored paper in AAAI'19) 2018.6-2019.12

Ankith Uppunda. UCLA undergraduate student. **Research mentor**. (Published in Findings of EMNLP 2020) 2019.3-2019.6.

Zhubo Deng, UCLA undergraduate student. **Research mentor** (First-author publication in ICDMW'19). 2019.1-2019.6

Xiaoshuang Wei, UCLA MS student in Computer Science (Now software engineer at Google). **Thesis mentor** 2016.10-2017.3

### Teaching

Teaching assistant (2015.9-2016.6), associate (2016.9-2017.6), fellow (2017.9-2018.6) at UCLA (Data Structures and Algorithms; Introduction to Computer Science).

## ACADEMIC SERVICES

### Organization Committee:

2021: AAAI (Senior PC), IJCAI (Senior PC)

2019: IEEE AIKE (Doctoral Consortium Co-chair)

### PC Member:

2021: ACL, EACL, NAACL, WSDM, WWW.

2020: AAAI, AACL-IJCNLP, AKBC, COLING, EMNLP, IJCAI, ISWC, KDD, SIGIR, WSDM, \*SEM.

2019: AAAI, AKBC, NAACL, ACL, EMNLP-IJCNLP, BigData, NLPCC, WISE, ICSC.

2018: AAAI, EMNLP, BigData, NLPCC, SoCal NLP.

**Journal Reviewer:** TPAMI, TNNLS, TKDD, TOIS, W3J, PLOS Computational Biology, Clinical and Translational Medicine, Comput. & Struct. Biotechnol., TKDE, TII, BMC Genomics, BMC Medical Genomics, GeoInformatica, Evolutionary Intelligence, Frontiers of Computer Science, Information Sciences.