

# 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*

2010.9-2014.6

*Advisor: X. Sean Wang*

## 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. **Muhao Chen**, Kai-Wei Chang, Dan Roth. Recent Advances in Transferable Representation Learning. In **AAAI**, 2020.

### Refereed Publication in Conference Proceedings

4. 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.
5. 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.
6. **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.
7. 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.
8. 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.
9. **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**

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10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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%)
17. 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
18. **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
19. 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.
20. 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.
21. **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.
22. 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.
23. **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.
24. 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.
25. 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.
26. 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.
27. 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.
28. **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.
29. 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.

30. 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.
31. **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)
32. **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.
33. **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
34. 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.
35. 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.
36. **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.
37. **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.
38. **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)
39. **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

40. 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.
41. 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.
42. 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
43. **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.
44. 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

45. 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.
46. Zubo 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
47. Changjun Fan, Yizhou Sun, Li Zeng, Yang-Yu Liu, **Muhao Chen**, Zhong Liu. Dismantle Large Networks through Deep Reinforcement Learning. In *ICLR Workshops*, 2019.
48. 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.

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49. **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.
50. 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.
51. 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. Understanding Event Processes in Natural Language. *Invited talk, IBM Research Almaden*. San Jose. May, 2021 (Scheduled)
3. Understanding Event Processes in Natural Language. *Invited talk, CS Research Colloquium, UCSB*. April, 2021
4. Understanding Event Processes in Natural Language. *Invited talk, NLP Seminar, The Ohio State University*. April, 2021
5. Understanding Event Processes in Natural Language. *Invited talk, Frontier Topics in Vision and Language, Arizona State University*. Mar, 2021.
6. Event-Centric Natural Language Understanding. *Half-day Tutorial at AAAI*. Feb, 2021.
7. Understanding Event Processes in Natural Language. *Invited talk at Language Technology Seminar, University of Cambridge*. Nov 2020
8. Understanding Event Processes in Natural Language. *Invited talk at Machine Learning and Big Data Seminar, UCLA*. Nov 2020
9. Knowledge Acquisition with Transferable Representation Learning. *CS Research Colloquium, USC*. Nov 2020
10. Event-Centric Commonsense Understanding. *CKG Lunch Talk, USC ISI*. Aug 2020
11. Event Schema Instantiation as Knowledge Graph Alignment. *PI meeting (KAISOS), DARPA*. June 2020.
12. Recent Advances in Transferable Representation Learning. *Half-day tutorial at AAAI*. NYC, NY, Feb 2020.
13. Multi-relational Knowledge Acquisition with Transferable Representation Learning. *AI Seminar, USC ISI*. Los Angeles, Jan 2020.
14. Multi-relational Knowledge Acquisition with Transferable Representation Learning. *IBM Research Almaden*. San Jose, Jan 2020.
15. Multi-relational Knowledge Acquisition with Transferable Representation Learning. *Invited talk at FDSiF, Fudan Univ., Shanghai, China*. Dec 2019.
16. Multi-relational representation learning and knowledge acquisition. *Invited talk at SNAP Seminar, Stanford University*. Jan 2019
17. Multi-relational representation learning and knowledge acquisition. *Machine Learning and Big Data Seminar, UCLA*. Jan 2019
18. Neural Article Pair Modeling for Wikipedia Sub-article Matching. *Google Search Intelligence Seminar Talk*. Sept 2017
19. Reasoning Across Multiple Spatiotemporal Granularity Systems. *Invited talk at Teradata Labs, El Segundo, CA, USA*. Mar 2015

### Conference talks

20. Cross-lingual Entity Alignment with Incidental Supervision. *Conference talk at EACL*. April 2021
21. “What Are You Trying To Do?” Semantic Typing of Event Processes. *Conference talk at CoNLL*. Nov 2020
22. Retrofitting contextualized word embeddings with paraphrases. *Conference talk at EMNLP, Hong Kong, China*. Nov 2019
23. Cross-lingual Dependency Parsing with Unlabeled Auxiliary Languages. *Conference talk at CoNLL, Hong Kong, China*. Nov 2019
24. Neural Article Pair Modeling for Wikipedia Sub-article Matching. *Plenary talk at ECML, Dublin, Ireland*. Sept 2018
25. Co-training Embeddings of Knowledge Graphs and Entity Descriptions for Cross-lingual Entity Alignment. *Conference talk at IJCAI, Stockholm, Sweden*. July 2018
26. On2Vec: Embedding-based Relation Prediction for Ontology Population. *Conference talk at SDM, San Diego, CA, USA*. May 2018
27. Multilingual Knowledge Graph Embeddings for Cross-lingual Knowledge Alignment. *Contributed talk at AKBC, Longbeach, CA, USA*. Dec 2017

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28. Multilingual Knowledge Graph Embeddings for Cross-lingual Knowledge Alignment. *Conference talk at IJCAI. Melbourne, Australia.* Aug 2017
29. 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
  - **Staff Researcher**, AI Division of the 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.* [22]
- Google, Mountain View, CA (Google Knowledge Graph) 2017.6~2017.9
- **Research Intern**, *Neural Article Pair Modeling for Large-scale Sub-article Relation Extraction.* [30,27,14]
- 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. **Research mentor** 2020.11-date

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

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Fei Wang, USC MS Student in Computer Science. <b>Research mentor</b> (First-author publication in SIGIR'21)	2020.9-date
Leshang Chen, UPenn PhD Student in Computer and Information Science. <b>Research mentor</b>	2020.2-date
Haoyu Wang, UPenn MS Student in Computer and Information Science. <b>Research mentor</b> (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. <b>Research mentor</b>	2019.6-date
Junheng Hao, UCLA PhD student in Computer Science. <b>Research mentor</b>	2017.10-2019.9
Xuelu (Shirley) Chen, UCLA PhD student in Computer Science. <b>Research mentor</b>	2017.10-2020.11
Pei Zhou, UCLA undergraduate student (Now PhD student at USC CS). <b>Research mentor</b> (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). <b>Research mentor</b> (First-author publications in EMNLP'19 and RepL4NLP'19. Coauthored paper in AAAI'19)	2018.6-2019.12
Ankith Uppunda. UCLA undergraduate student. <b>Research mentor</b> . (Published in Findings of EMNLP 2020)	2019.3-2019.6.
Zhubo Deng, UCLA undergraduate student. <b>Research mentor</b> (First-author publication in ICDMW'19).	2019.1-2019.6
Xiaoshuang Wei, UCLA MS student in Computer Science (Now software engineer at Google). <b>Thesis mentor</b>	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.