

JUNHENG HAO

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Address: 3551A Boelter Hall, 420 Westwood Plaza, Los Angeles, CA 90095

Education

University of California, Los Angeles

Los Angeles, USA

Ph.D. Candidate, Department of Computer Science | **Advisors:** [Yizhou Sun](#), [Wei Wang](#)

Sept. 2017 - Present

Tsinghua University

Beijing, China

Bachelor of Engineering, School of Information Science and Technology

Aug. 2013 - July. 2017

Research Interests

Knowledge Graph, Graph/Text Mining, Natural Language Processing, Machine Learning

Research & Work Experiences

Ontology augmented KG Representation Learning | Research Assistant

Los Angeles, CA

Lab: UCLA Data Mining Group, [Scalable Analytics Institute \(ScAi\)](#)

Sept. 2017 - Present

- Joint embedding model (JOIE) of the instance-ontology view in knowledge graphs for knowledge completion

Diversified Complementary Recommendation | Applied Scientist Intern

Seattle, WA

Lab: Amazon Product Graph Team | **Mentors:** Tong Zhao, [Luna Dong](#), [Christos Faloutsos](#) *June 2019 - Dec. 2019*

- Enabling diversified complementary recommendation from large-scale product graphs and hierarchical ontology.

Knowledge Transfer on Enterprise Blueprint Graph | Research Intern

Princeton, NJ

Lab: [NEC Lab America, Inc.](#) | **Mentors:** [Lu-An Tang](#), [Zhichun Li](#), [Haifeng Chen](#)

June 2018 - Sept. 2018

- Major project: Multi-source graph knowledge transfer on enterprise engines for malicious process detection.

DynaMIT2.0: Mobility in Future | Research Intern

Singapore City, Singapore

Advisors: [Moshe Ben-Akiva](#) (MIT), Ravi Seshadri (SMART Lab)

Aug. 2016 - Sept. 2016

Lab: Future Mobility Computing Lab, Singapore-MIT Alliance for Research and Technology

- Improvement online state-update algorithms on status prediction model [DynaMIT2.0](#) in transportation networks.

PhysioNet Challenge: Heart Sound Recordings Classification | Visiting Student

Los Angeles, CA

Mentor: [Yan Liu](#) (Melady Lab, University of Southern California)

Jun. 2016 - Aug. 2016

- PhysioNet Challenge (Phonocardiogram classification by revised-AlexNet on EEG spectrogram features).

Data-Driven Methods in Traffic Feature Analysis | Research Assistant

Beijing, China

Advisors: Zuo Zhang, Xin Pei (Tsinghua University)

Sept. 2015 - May 2016

- Using spatial/temporal information of traffic intersections to promote road network facility and avoid congestion.

Publications

- [1] **Junheng Hao**, Chelsea J.-T. Ju, Muhao Chen, Yizhou Sun, Carlo Zaniolo, Wei Wang. “Bio-JOIE: Joint Representation Learning of Biological Knowledge Bases”, submitted to ACM BCB 2020 (under review).
- [2] Jyun-Yu Jiang, Chelsea J.-T. Ju, **Junheng Hao**, Muhao Chen, Wei Wang. “JEDI: Circular RNA Prediction based on Junction Encoders and Deep Interaction among Splice Sites” submitted to ECCB 2020 (under review).
- [3] **Junheng Hao**, Tong Zhao, Luna Xin Dong, Christos Faloutsos, Jin Li, Yizhou Sun, Wei Wang. “P-Companion: Framework for Diversified Complementary Product Recommendation”, submitted to CIKM 2020 (under review).
- [4] **Junheng Hao**, Muhao Chen, Wenchao Yu, Yizhou Sun, Wei Wang. “[Universal Representation Learning of Knowledge Bases by Jointly Embedding Instances and Ontological Concepts](#)”, published on ACM SIGKDD 2019.
- [5] Chen-Shuo Sun, Xin Pei, **Junheng Hao**, Zuo Zhang. “[Accident Impact Analysis in Traffic Safety and Mobility Using Group Network Features](#)”, published on *Transportation Research Part B: Methodological* (2018)
- [6] Tanachat Nilanon, Jiayu Yao, **Junheng Hao**, Yan Liu. “[Normal/Abnormal Heart Sound Recordings Classification Using Convolutional Neural Network](#)”, presented at *Computing in Cardiology 2016* (CinC 2016)
- [7] Chen-Shuo Sun, **Junheng Hao**, Xin Pei, Zuo Zhang. “[A Data Driven Approach for Evaluation of Urban Accident Impacts](#)”, presented at *IEEE Conference on Intelligent Transportation Systems* (ITSC 2016)

Academic Services

- PC member of [KDD 2020](#)(Research Track), [ICML 2020](#), [ECML-PKDD 2020](#) and [AAACL-IJCNLP 2020](#)
- PC member of [1st CDEC Workshop](#) and [2nd CDEC Workshop](#), IEEE ICDM 2018/2019
- Journal/Conference Reviewer: TIST, TPAMI, TKDD, WDSM, ECML/PKDD, EMNLP, ICDM etc.

Skills

- Programming Skills: Python, Java, C/C++, MATLAB, JavaScript, SQL
- Operating system & Tools: Linux(Ubuntu)/Mac OS X, Tensorflow, PyTorch, MXNet
- Language: Mandarin (Native), English (Proficient), German (Basic), Spanish (Basic)