

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

Sept. 2017 - Present

Advisors: [Yizhou Sun](#), [Wei Wang](#)

- Major field: Information and Data Management, Minor fields: Artificial Intelligence, Statistics | GPA: 3.8/4.0

Tsinghua University

Beijing, China

Bachelor of Engineering, School of Information Science and Technology

Aug. 2013 - July. 2017

- Outstanding graduate in Department of Automation, Tsinghua University

Research Interests

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

Research Experiences

Diversified Complementary Recommendation | Applied Scientist Intern

Seattle, WA

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

June 2019 - Present

- 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 ASI Enterprise Engine.
- Minor project: Deep-learning based End-point DNS Monitoring System for Malicious Process Detection.

Multi-view & Multi-lingual KG Representation Learning | Research Assistant

Los Angeles, CA

Lab: [Scalable Analytics Institute \(ScAi\)](#)

Sept. 2017 - Present

- Joint embedding model (JOIE) of the instance-ontology view in knowledge graphs for knowledge completion
- Ongoing projects: Semantic search on multi-lingual KGs, Imputation on gene ontology and protein graphs.

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***, Tong Zhao*, Luna Xin Dong, Christos Faloutsos, Jin Li, Yizhou Sun, Wei Wang. “Diversified Product Complementary Recommendation”, submitted to *The Web Conference 2020* (WWW 2020, under review)
- [2] **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 Conference on Knowledge Discovery and Data Mining* (KDD 2019)
- [3] 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)
- [4] 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)
- [5] 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 [ICML 2020](#) and [SoCal NLP Symposium 2019](#)
- PC member of [1st CDEC Workshop](#) and [2nd CDEC Workshop](#), IEEE ICDM 2018/2019
- Reviewer: 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)