Zhaocheng Zhu

6666 St Urbain St, Montréal, QC H2S 3H1, Canada

(+1)514-994-9516 ♦ https://kiddozhu.github.io ♦ zhaocheng.zhu@umontreal.ca

EDUCATION

Mila - Québec AI Institute / Université de Montréal, Montréal, Canada Sep. 2018 - Present Ph.D. student in Computer Science

· Graph Representation learning, Machine Learning Systems, Knowledge Graphs Advisor: Jian Tang

Peking University, Beijing, China

Sep. 2014 - July 2018

B.S. in Computer Science (with honors)

- · Natural Language Processing, Unsupervised Representation Learning, Word Semantics Advisor: Junfeng Hu
- · Computer Vision, Object Detection

Thesis Advisor: Yizhou Wang, Jifeng Dai (Microsoft Research Asia)

SELECTED PUBLICATIONS

GraphVite: A High-Performance CPU-GPU Hybrid System for Node Embedding Zhaocheng Zhu, Shizhen Xu, Meng Qu and Jian Tang. In *The World Wide Web Conference*, pp. 2494-2504, 2019. https://graphvite.io.https://github.com/DeepGraphLearning/graphvite.

INTERNSHIP

Microsoft Research Asia, Beijing, China

Sep. 2018 - May 2019

- · Video object detection with optical flow and temporal context
- · Reproduction of Mask R-CNN for keypoint detection
- · Towards accurate localization in object detection

Mentor: Jifeng Dai

Carnegie Mellon University, Pittsburgh, United States

July 2017 - Sep. 2017

· Stacked local linear explanations for deep neural networks

Advisor: Pradeep Ravikumar

Mitsubishi Information Technology R&D Center, Kamakura, Japan

July 2016 - Aug. 2016

- · Dialog State Tracking Challenge 5
- · Multi-label classifier for Chinese intention understanding

Mentor: Yusuke Koji

PUBLICATIONS

Self-Adaptive Network Pruning

Jinting Chen, **Zhaocheng Zhu**, Cheng Li, Yuming Zhao In *International Conference on Neural Information Processing*, 2019. (Oral)

GraphVite: A High-Performance CPU-GPU Hybrid System for Node Embedding Zhaocheng Zhu, Shizhen Xu, Meng Qu and Jian Tang. In *The World Wide Web Conference*, pp. 2494-2504, 2019.

Saliency Supervision: An Intuitive and Effective Approach for Pain Intensity Regression Conghui Li, Zhaocheng Zhu and Yuming Zhao. In *International Conference on Neural Information Processing*, pp. 455-464, 2018.

Context Aware Document Embedding

Zhaocheng Zhu and Junfeng Hu. arXiv preprint arXiv:1707.01521, 2017.

Dialog state tracking with attention-based sequence-to-sequence learning

Takaaki Hori, Hai Wang, Chiori Hori, Shinji Watanabe, Bret Harsham, Jonathan Le Roux, John R Hershey, Yusuke Koji, Yi Jing, **Zhaocheng Zhu** and Takeyuki Aikawa. In *IEEE Spoken Language Technology Workshop (SLT)*, pp. 552-558, 2016. (Runner up at Dialog State Tracking Challenge 5)

SELECTED PROJECTS

GraphVite: A general and high-performance graph embedding system for various applications (with GraphVite team)

General and high-performance graph embedding system. Support 3 applications, 9 models and more than 30 baseline benchmarks. Over 400 stars and 400 downloads.

https://graphvite.io https://github.com/DeepGraphLearning/graphvite

Literature of Deep Learning for Graphs (with Meng Qu and Weiping Song)

Comprehensive paper list of deep learning for graphs. Over 2,000 stars.

https://github.com/DeepGraphLearning/LiteratureDL4Graph

Aleo: A toolkit for Mahjong AI (with Fangyin Wei)

Winner of 2018 Game AI course at Peking University, with a win rate of 46.8% in the 4-player Mahjong. https://github.com/KiddoZhu/Aleo

Find It! (with Jun Gao)

Efficient parallel implementation of dynamic dictionary matching.

https://github.com/KiddoZhu/FindIt

HONORS AND AWARDS

Tuition Fee Exemption Scholarships, Université de Montréal	2019 - 2021
Outstanding Graduate Student, Peking University	2018
Outstanding Research Award, Peking University	2016
Kwang-Hua Scholarship, Peking University	2016
Honorable Mention, Mathematical Contest in Modeling (MCM)	2016
Merit Student, Peking University	2015
Tung OCCL Scholarship, Peking University	2015
Honorable Mention, Mathematical Contest in Modeling (MCM)	2015
Group Champion, Peking University Debate Competition for Freshman	2014

SERVICE

Reviewer, GRL Workshop, NeurIPS 2019

League branch secretary, Society of Photography, Peking University

Sep. 2017 - June 2018

Leader of story portrait group, Society of Photography, Peking University

Apr. 2015 - Aug. 2017

Member of organizers & news team, HackPKU, Peking University

Apr. 2016

SKILLS

Programming Languages:

· Proficient: C/C++, Python, Pascal/Object Pascal

· Capable: MATLAB, SQL, Bash, Assembly, HTML/CSS

Frameworks: CUDA, PyTorch, MXNet, Keras, TensorFlow Toolchains: Git, IATEX, GDB, CMake, Conda, Photoshop

Languages: Mandarin Chinese(native), English(proficient), French(beginner)