

Zhaocheng Zhu

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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
 - Computer Vision, Object Detection
- Advisor: Junfeng Hu
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

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 embedding library based on *GraphVite: A High-Performance CPU-GPU Hybrid System for Node Embedding* (Zhu et al., 2019)

Support 3 applications, 9 models and more than 30 baseline benchmarks. Over 400 stars.

<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 1900 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, L^AT_EX, GDB, CMake, Conda, Photoshop

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