

Jingtun Zhang

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Objective position: Software Development Engineer Internship

Github: OrdinaryCrazy [\[Link\]](#)

EDUCATION

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- **Texas A&M University** College Station, TX, USA
Master of Computer Science (MCS) **GPA: 4.0/4.0**, Supervisor: Prof. Shuiwang Ji [\[Link\]](#) Aug. 2020 – Dec. 2022
 - **University of Science and Technology of China** Hefei, Anhui, China
Bachelor of Computer Science and Technology, **GPA: 3.67/4.30** Aug. 2016 – July 2020

EXPERIENCE

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- **DIVE Lab @ Texas A&M University** College Station, TX, USA
Research Assistant, Supervisor: Prof. Shuiwang Ji July 2020 - Dec. 2021
 - Assisted in building up and finetuning a robust self-supervised learning graph neural networks framework on OGB dataset and OC20 Challenge for biomedical drug molecules' filtering and property prediction.
 - **Univeristy of California, Santa Barbara** Santa Barbara, CA, USA
Summer Research Intern, Supervisor: Prof. Yufei Ding July 2019 - Sep. 2019
 - Utilized motion-vector information to accelerate video object detection as part of a MxNet-architecture compiler framework project for deep video stream processing like MSRA-DFF.
 - Attempted to build a more complicated MV-Net to improve the quality of motion vector used at feature map level, rather than just scale the motion vector by 1x1 convolutional layer, getting **MAP@5 = 0.6225**.

PROJECTS

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- **Open Catalyst Challenge (Rank #3)** [\[Link\]](#)
 - Building machine learning models to simulate the relaxtion process of a molecular system.
 - Dataset preprocessing and profiling to differentiate the distribution of adsorbate and catalyst.
 - Splitting dataset by the distribution of the system to train models on different subsplits to ensemble.
 - **Dive Into Graphs (Stars 900+)** [\[Link\]](#)
 - Implementing a unified library for graph deep learning algorithms, data interface and baseline.
 - Coding for data loading, preprocessing and evaluation strategies of graph self-supervised learning part.
 - Achieved better or comparable results and computation complexity than most authors' code.
 - **Kayak for Mask** [\[Link\]](#)
 - Course work for building a Kayak-like website for kid's mask searching and filtering.
 - Based on Django framework and able to update information by spidering online sheets and store pages.
 - Deployed on Heroku [\[Link\]](#) by docker images to serve as public resource for fighting Covid-19.
 - **Bank Database Application** [\[Link\]](#)
 - Course work implemented a small full-stack bank database system as interface and management platform.
 - Building with popular framework: front end by Vuejs, back end by Flask and DBMS by Oracle.

PUBLICATIONS

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- Xie, Y., Xu, Z., **Zhang, J.**, Wang, Z. and Ji, S., 2021. Self-supervised learning of graph neural networks: A unified review. arXiv preprint arXiv:2102.10757. [\[Link\]](#)
 - Liu, M., Luo, Y., Wang, L., Xie, Y., Yuan, H., Gui, S., Yu, H., Xu, Z., **Zhang, J.**, Liu, Y. and Yan, K., 2021. DIG: A Turnkey Library for Diving into Graph Deep Learning Research. (**JMLR2021**) [\[Link\]](#)

SELECTED AWARDS

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- **National Scholarship** Hefei, Anhui, China
For Top 5 percent Student Sep. 2018
 - **Outstanding Student Scholarship (Sliver)** Hefei, Anhui, China
For Top 10 percent Student at USTC Sep. 2017

PROGRAMMING SKILLS

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- **Languages:** Python, Java, C/C++
 - **Technologies:** Pytorch, Tensorflow/Keras