

# Zuoyu Yan

PH.D. STUDENT ·

Wangxuan Institute of Computer Technology, Peking University

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## Research Interest

My research interest lies in the intersection of graph neural networks and topological data analysis. In particular, I am interested in:

- Learning topological representations
- Analyzing the representation power of graph neural networks.

## Education

### Peking University

PH.D. STUDENT, COMPUTER SCIENCE

2019.09 till now

### Peking University

UNDERGRADUATE DEGREE, DATA SCIENCE

2015.09 - 2019.06

## Intern Experience

### Alibaba DAMO Academy

2021.05-2021.10

- Multimodal entity linking on Wikipedia and Wikinews data.

## Publications

**Yan Z**, Ma T, Gao L, Tang Z, Wang Y, Chen C. Neural Approximation of Graph Topological Features. Advances in Neural Information Processing Systems (**NeurIPS**), 2022. (**Spotlight, acceptance rate 4%-5%**)

**Yan Z**, Ma T, Gao L, Tang Z, Chen C. Cycle Representation Learning for Inductive Relation Prediction. International Conference on Machine Learning (**ICML**), 2022.

**Yan Z**, Ma T, Gao L, Tang Z, Chen C. Link Prediction with Persistent Homology: An Interactive View. International Conference on Machine Learning (**ICML**), 2021.

**Yan Z**, Zhang X, Gao L, Yuan K, Tang Z. ConvMath : A Convolutional Sequence Network for Mathematical Expression Recognition. International Conference on Pattern Recognition (**ICPR**), 2020.

Zhao W, Gao L, **Yan Z**, Peng S, Du L, Zhang Z. Handwritten mathematical expression recognition with bidirectionally trained transformer. International Conference on Document Analysis and Recognition (**ICDAR**), 2021. (**best poster**).

Gao L, Yi X, Liao Y, Jiang Z, **Yan Z**, Tang Z. A deep learning-based formula detection method for PDF documents. International Conference on Document Analysis and Recognition (**ICDAR**) 2017.

## Honors

- Won the 2021-2022th "Outstanding Research Award" of Peking University. (10%)
- Won the 2021-2022th "Outstanding Student Award" of Wangxuan Institute of Computer Technology (**WICT**). (5%)
- Won the 2018-2019th Excellent Project of Peking University President's Fund (10%)
- Won the third prize in the "Schlumberger Cup" programming competition held in Peking University.

- Ranked 8th(836 teams) in the Plant Seedlings Classification competition held on Kaggle website

## Skills

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- Languages: C/C++, Matlab, Python
- Tools: Torch, Tensorflow, PyTorch, OpenCV

## Professional Service

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Conference Reviewer at:

- Conference on Neural Information Processing Systems (NeurIPS)
- International Conference on Machine Learning(ICML)
- Learning on Graphs Conference (LoG)