### **Peizhi Yan** (颜培郅)

**Computer Science Master Student (Thesis) | Graduate Assistant**

Lakehead University [955 Oliver Rd, Thunder Bay, ON, P7B 5E1](https://goo.gl/maps/zcfVWFek8yB2)

2018-2019 Vector Institute Scholarship in Artificial Intelligence Recipient: [link](https://vectorinstitute.ai/2018/12/13/vector-awards-inaugural-scholarships-second-round-of-applications-to-open-in-2019/)

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# education

* **Lakehead University**, Thunder Bay, Ontario, Canada — *Master of Science Student in Computer Science* 2018-present
* **Algoma University**, Sault Ste. Marie, Ontario, Canada — *Bachelor of Science in Computer Science (Hons., Cum Laude)* 2016-2018
* **University of Jinan**, Jinan, Shandong, China — *Undergraduate Student in Computer Science*

2014-2016 (transferred to Algoma University in 2016)

# Teaching experience

* *Deep Learning (2019 Spring)*

**Guest Lecturer**, Lakehead University graduate student course, 59 students

* *Optimization Method (2019 Spring)*

**Guest Lecturer**, Lakehead University graduate student course, 19 students

* [*Assembly*](http://timetable.lakeheadu.ca/scripts/return.course.description.php?c=COMP&cn=3413) *Language (2019 Winter)*

**Lab Course Instructor**, Lakehead University undergraduate student course, 38 students

* [*Data Base Management Systems*](http://timetable.lakeheadu.ca/scripts/return.course.description.php?c=COMP&cn=3413) *(2018 Fall)*

**Lab Course Instructor**, Lakehead University undergraduate student course, 25 students

# Academic experience

* **Reviewer**, IEEE Transactions on Circuits and Systems for Video Technology. (2019)
* **Graduate assistant**, Lakehead University (2018-present)
* **Research assistant** (on artificial neural networks) at Brain Computer Interface lab, Algoma University, Canada (2017-2018)
* **Vice-minister** of Software Department of Turing Computer Association, University of Jinan, China (2015-2016)

# Technical Skills

* **Programming languages:** Java, Python, C++, C, Swift, JavaScript, HTML5, PHP
* **Operating Systems:** Unix/Unix-like OS, Windows, iOS and Android development
* **Open Source Libraries:** OpenCV (Python), Tensorflow (Python), SciPy.org libraries
* **Database Systems:** MySQL, Firebase

# Domain Knowledge

* Computer Vision and Image Analysis
* Machine Learning, Artificial Neural Networks and Deep Learning
* Big Data Analysis
* Algorithm Design
* Object-Oriented Programming and Object-Oriented Design

# Publications

*Published:*

* **Peizhi Yan**, Salimur Choudhury, & Ruizhong Wei, (2019). A Distributed Graph-Based Dense RFID Readers Arrangement Algorithm. *IEEE International Conference on Communications (ICC): Mobile and Wireless Networks Symposium*, May 20-24, 2019, Shanghai, China.
* **Peizhi Yan**, & Yi Feng, (2018). Using Convolution and Deep Learning in Gomoku Game Artificial Intelligence. *Modern Physics Letters* A 28, no. 03 (2018): 1850011.
* **Peizhi Yan**, & Yi Feng, (2018). A Hybrid Gomoku Deep Learning Artificial Intelligence. *Artificial Intelligence and Cloud Computing Conference*, Dec 21-23, 2018, Tokyo, Japan. (ISBN: 978-1-4503-6623-6)

# Awards and Honors

* **Vector Scholarships in Artificial Intelligence (VSAI)** by Vector Institute, $17,500 (CAD), 2018-2019
* **Graduate Assistantship** (Lakehead University), 2018-2019
* **Faculty Research Award** (Lakehead University faculty of Computer Science), 2018
* **Lakehead University Entrance Award**, 2018
* **Lakehead University International Entrance Award**, 2018
* **Faculty of Science and Environmental Studies Entrance Award** (Lakehead University), 2018
* **Graduated Cum Laude** (Algoma University, Bachelor of Science) with last two years’ GPA 4.0, 2018

# Projects

* A Tensorflow (r1.13) implementation of Extreme Learning Autoencoder ([open source](https://github.com/PeizhiYan/ELA))
* **Utilizing Twitter Data Analysis and Deep Learning to Identify Drug Use** (in progress)
* **Deep Learning Portrait Mode Photo Generator** (2018)

(https://peizhiyan.github.io/portrait\_mode.html)

* **Distributed Dense RFID Readers Arrangement Algorithm** (2018)
* **Convolution-Based Gomoku Game Evaluation Algorithm** (2018) (<https://peizhiyan.github.io/conv_gomoku.html>)
* Undergraduate Thesis Project: **Using Machine Learning in Gomoku Game** (2017-2018)

# interests

* Artificial Intelligence, Artificial Neural Networks, Oil Painting, Reading