### Peizhi Yan (颜培郅)

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

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“The present is theirs; the future, for which I really worked, is mine.”  ― **Nikola Tesla**

# Education

* **Lakehead University** (2018-present) GPA: 4.0

Thunder Bay, Ontario, Canada — *Master of Science Student in Computer*

* **Algoma University** (2016-2018) GPA: 4.0

Sault Ste. Marie, Ontario, Canada — *Bachelor of Science in Computer Science (Hons., Cum Laude)*

* **University of Jinan** (2014-2019), Jinan, Shandong, China — *Bachelor of Science in Computer Science*

# Teaching Experience

* *Computer Vision (2019 Fall)*

**Guest Lecturer**, Lakehead University graduate-level course, 70 students

* *Deep Learning (2019 Spring)*

**Guest Lecturer**, Lakehead University graduate-level course, 59 students

* *Optimization Method (2019 Spring)*

**Guest Lecturer**, Lakehead University graduate-level course, 19 students

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

**Lab Tutor**, Lakehead University undergraduate-level course, 38 students

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

**Lab Tutor**, Lakehead University undergraduate-level 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:** Python, Java, C++, C, JavaScript, HTML5
* **Operating Systems:** Unix/Unix-like OS, Windows, iOS and Android development
* **Open Source Libraries:** OpenCV, Tensorflow, SciPy, Gurobi
* **Others:** LATEX, 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)

***Submitted:***

* **Peizhi Yan**, Salimur Choudhury, & Ruizhong Wei.A Machine Learning Auxiliary Approach for the Distributed Dense RFID Readers Arrangement Algorithm. *IEEE Access on Intelligent and Cognitive Techniques for Internet of Things.*
* **Peizhi Yan**, Fadi Al-turjman, Ibrhaim Al-Oqily, & Salimur Choudhury. An Energy-Efficient Topology Control Algorithm for Optimizing the Lifetime of Wireless Information-Centric IoT Networks. *Future Generation Computer Systems.*
* Joseph Tassone, **Peizhi Yan**, Mackenzie Simpson, Chentan Mendhe, Vijay Mago, & Salimur Choudhury.Utilizing Twitter Data Analysis and Deep Learning to Identify Drug Use. *IEEE Access*.

# Awards and Honors

* (2019) **Faculty Research Award** (Lakehead University faculty of Computer Science)
* (2019) **International Match Fund Award** (Lakehead University)
* (2019) **Faculty of Science and Environmental Studies Award** (Lakehead University)
* (2018) **Vector Scholarships in Artificial Intelligence (VSAI)** by Vector Institute, $17,500 (CAD)
* (2018-2019) **Graduate Assistantship** (Lakehead University)
* (2018) **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)

# Projects

* (Ongoing) **Deep Learning Satellite Image Lichen Mapping** (in collaboration with NCASI)
* (2019) Web-based **Painting Application** (<https://peizhiyan.github.io/www/draw.html>)
* (2019) A Tensorflow implementation of **Extreme Learning Autoencoder** ([open source](https://github.com/PeizhiYan/ELA))
* (2019) **Deep Learning 4X Video Super-Resolution**
* (2018-2019) **Utilizing Twitter Data Analysis and Deep Learning to Identify Drug Use**
* (2018) **Deep Learning Portrait Mode Photo Generator**
* (2018) **Distributed Dense RFID Readers Arrangement Algorithm**
* (2018) **Convolution-Based Gomoku Game Evaluation Algorithm**
* (2017-2018) Undergraduate Thesis Project: **Using Machine Learning in Gomoku Game**

# Other Interests

* Painting
* Reading