# Xiaozhe Yao

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### EDUCATION

**MS**    University of Zürich, Data Science          Sept 2019 - ca. July 2021
Zürich, Switzerland
Minored in Mathematics
Thesis: TBD
Advisor: TBD

**BS**    Shenzhen University, Computer Science         Sept 2013 - July 2017
Shenzhen, China
GPA: 3.59, ranked 17.
Special Honour in High Performance Computing
Thesis: Face Detection with Multi-Block Local Binary Pattern in OpenCV
Advisor: Prof. Shiqi Yu

### HONORS, AWARDS & GRANTS

**Excellent Youth Entrepreneur of Nanshan, Shenzhen**         2017
Given by the Youth League of Nanshan District

**Excellent Student Leader (Second Prize), Shenzhen University**     2016
Award to students with strong leadership in student organization

**Excellent Student (First Prize), Shenzhen University**        2015
Award to students with excellent academic performance

**Loongson Award (Third Prize)**         2015
Award to students with excellent academic records, also known as Chinese Academy of
Sciences Fellow Awards

**Grantee of Cyberport Incubation Program, Hong Kong**        2018
Grants for Startups to expand their business

**Grantee of Cyberport Creative Micro Fund, Hong Kong**        2016
Grants for Startup Ideas and Prototype

**Grantee of Individual Makers Fund, Shenzhen Sci. & Tech. Committee**   2016
Grants for Students Ideas and Prototype

### RESEARCH EXPERIENCE

**Multi Block Local Binary Pattern in OpenCV**, Shenzhen University, China   2017
Advisor: Prof. Shiqi Yu

- I modified Multi Block Local Binary Pattern from Prof. Shiqi Yu's version and adapted it into OpenCV. I learned general face detection process, especially Viola-Jones's algorithm (haar-like features, cascade classifier and adaboost) from this dissertation.
- Multi Block Local Binary Pattern[1] was proposed by Prof. Stan Z. Li. See reference for more information.

**National High Performance Computing Center**, Shenzhen     2014 to 2016
**Student & Research Assistant**
- Project: A new approach to predicting the value of stocks based on Deep Learning. Sponsored by Provincial Undergraduate Training Program for Innovation and Entrepreneurship. The project is ranked: Good.

**Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences**, Shenzhen
2016 to 2017
**Data Scientist Intern**, Lab of Precision Medicine
- Develop Foodie - Healthy and Diet Food Recommendation

**Zhitan Technology**, Shenzhen     2017 to 2018
**Data Scientist & Deep Learning Engineer**
- Develop Food Classification Algorithm
- Build systems for recommendation with Deep Learning

**AICAMP.CO.,LTD**, Hong Kong     2018 to Present
**Associate Founder**
- Develop CVFlow - Open Workflow for Computer Vision

**Computer Vision Lab at Shenzhen University**, Shenzhen     2018 to 2019
**Research Assistant**
- A major contributor to the computer vision platform for online labelling, training, and testing. (Industry AI)
- Developed intra-concentration and inter-separability loss for image classification, achieving robust classification performance.

### TEACHING EXPERIENCE

**Shenzhen University**, Shenzhen     Sept. 2014 to July 2019
**Teaching Assistant**, Computer Science and Engineering
- Professional English; Web based Programming; Internet Application Development (Android); Data Structure and Algorithms; Java Programming;
- Corrected quizzes, exams, capstone projects, and homework
- Solved students problems in practical classes.

### PUBLICATIONS

*Books*

Road to Machine Learning - Online Learning Notebook. https://ml.autoai.org

*Conference Papers*

(Peer-Reviewed)

Chen, Yingying, and Xiaozhe Yao. "CVTron Web: A Versatile Framework for Online Computer Vision Services." World Congress on Services. Springer, Cham, 2018.

Yao, Xiaozhe, et al. "Face Based Advertisement Recommendation with Deep Learning: A Case Study." International Conference on Smart Computing and Communication. Springer, Cham, 2017.

## PRESENTATIONS AND INVITED LECTURES

**Paper Presentation**, "Introduction of CVTron Web" World Congress on Services, Seattle WA. Jun 15, 2018.

**Paper Presentation**, "Face based Advertisement Recommendation System" International Conference on Smart Computing, Shenzhen China. Dec 10, 2017.

## PROFESSIONAL TRAINING & CERTIFICATE

**Entrepreneurship and Innovation Program Certificate**
California State University, Long Beach, California

**Eco-Tourism Research Summer Program Certificate**
University of Malaysia, Sabah, Malaysia

## PROFESSIONAL AFFILIATIONS

AICAMP.CO.,LTD, 2018-Present
Lead the development of CVFlow, member of Core Team. Responsible to the Advisory Board.

## LANGUAGES

**Chinese:** Native Language
**English**: CEFR C1, Effective Operational Proficiency
**Deutsch:** Basic words & Phrases

## OTHER

*There is an online version of my curriculum vitae hosted at* **https://xzyaoi.github.com** *where you will find useful links and materials.*

## REFERENCE

[1] Liao, Shengcai, et al. "Learning multi-scale block local binary patterns for face recognition." International Conference on Biometrics. Springer, Berlin, Heidelberg, 2007.