

Xiaozhe Yao

Curriculum Vitae

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SUMMARY

I am passionate about machine learning, computer vision and especially its connection with neural science. I received my bachelor degree from the College of Computer Science at Shenzhen University with a special honour in high-performance computing. After my coursework at Shenzhen University, I joined the Chinese Academy of Sciences as a data scientist intern. Then I returned to CV Lab, Shenzhen University to deepen my understanding of computer vision.

EXPERIENCE

AICAMP.CO.,LTD, Hong Kong — Associate Founder

2018/5- PRESENT

Dedicated to CVFlow.

CVLab, Shenzhen University, Shenzhen — Research Assistant

2018/5- 2019/7

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.

A major contributor to [CVPM](#), the computer vision package manager.

* Conducted together with Shenzhen University, Institute of Automation, Chinese Academy of Sciences, Watrix.AI.CO., LTD.

Zhitan Technology, Shenzhen — Data Scientist & Lead Deep Learning Engineer

2017/3 - 2018/3

Lead the development of Foodie: the healthy and delicious food recommendation System based on deep learning and computer vision.

Develop a recommendation system on Apache Spark, and later use wide and deep model.

Develop a food image recognition server.

Shenzhen Institute of Advanced Technology, Shenzhen — Data Scientist Intern & Visiting Student

2016/3 - 2017/3

Member of Big Data on Precision Medicine Research Group.

Peer-Reviewed Papers

[CVTron: A Versatile Framework for Online Computer Vision Services](#)

(Yingying Chen, Xiaozhe Yao(co-1st author); SCF World Congress of Services 2018)

[Face Based Advertisement Recommendation with Deep Learning: A Case Study](#)

(Xiaozhe Yao, Yingying Chen, Rongjie Liao, Shubin Cai; International Conference on Smart Computing and Communication 2017)

English Proficiency

CEFR: C1;
IELTS: 7 (Taken on Nov, 2018)

Other Writings

[FAQs about Machine Learning.](#)

Awards

Excellent Youth Entrepreneur of Nanshan District, Shenzhen, 2017.

Excellent Student of Shenzhen University (First Prize) 2015

Excellent Student Leader of Shenzhen University (Second Prize) 2016

Mainly work on the research of food diet and its relation to human health.

National High-Performance Computing Center, Shenzhen — Student & Research Assistant

2014/6 - 2017/3

Member of the Key Lab in Service Computing and Application of Shenzhen

EDUCATION

University of Zurich, Zurich — Master in Informatics, Data Science with a Minor in Mathematics

2019/9 - Present

Shenzhen University, Shenzhen — Bachelor in Computer Science

GPA: 3.55/4.0; Rank: Top 5%

Dissertation: Multi-Block local binary pattern for face detection - An OpenCV compatible implementation. Supervised by Prof. [Shiqi Yu](#).

2013/9 - 2017/6

Shenzhen University, Shenzhen — High-Performance Computing Special Honor

2013/9 - 2017/6

PROJECTS

[Industry AI \(CVTron\)](#) -- A Versatile Computer Vision Library

A Versatile platform including image classification, object detection, and segmentation.

[CVFlow](#) -- Open Workflow for Computer Vision

An easy-to-use package manager for download, manage and deploy computer vision services.

Sponsored by DiDi, Inc, Shenzhen University (CV Lab) and AICAMP.CO., LTD.

Foodie -- Healthy & Delicious Food Recommendation

Adopting Wide & Deep neural network for the food recommendation.

Sponsored by Shenzhen Science and Technology Committee and Hong Kong Cyberport Limited.

Multi-Block Local Binary Pattern for face detection -- An OpenCV compatible Implementation.

Implement Multi-Block LBP into OpenCV.

Our mean accuracy is 12% higher than Haar-Like features.

Loongson (also known as Chinese Academy of Sciences Fellow) Award (Third Prize) 2015

Certificates

Entrepreneurship and Innovation Programme at California State University, Long Beach.

Malaysia Eco-Tourism Research Summer Program at University of Malaysia, Sabah

Grants

Grantee of Cyberport Creative Micro Fund projects. Hong Kong.

Grantee of Cyberport Incubation Programme Project. Hong Kong.

Grantee of Individual Maker Fund by Shenzhen Science and Technology Committee.

Patents and Software Copyrights

A new approach to food recommendation which takes care of both nutrition and taste.

A trustworthy distributed computing system for deep learning training tasks.

A new approach to predicting the value of stocks based on Deep Learning.

Adopting Deep Learning to Value Investing and stock analysis.
Sponsored by Provincial Undergraduate Training Program for Innovation and Entrepreneurship. The project is ranked: Good.