XIAOZHE YAO

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CAREER GOALS

My longterm career goal is to become a researcher and engineer in machine learning infrastructures and apply machine learning to solve problems in other fields (e.g databases, social sciences, etc). I am thrilled to help other developers use machine learning in a more efficient, simple way. By working on the ML infrastructure, we could not only boost the application of machine learning but also investigate which algorithm is better than others. I am convinced that general-purpose, full-lifecycle management of machine learning could help researchers, companies and individuals achieve their goals more easily.

EDUCATION

MS University of Zurich, Data Science   Sept 19 - June 21
Thesis: TBD
Advisor: TBD
Minor in Mathematics

Micro Master Massachusetts Institute of Technology   Sept 20 - Dec 21
Statistics and Data Science

BS Shenzhen University, Computer Science   Sept 13 - June 17
With honour in High-Performance Computing
Thesis: Face Detection with Multi-Block Local Binary Pattern in OpenCV
Advisor: Prof. Dr Shiqi Yu

HONORS, AWARDS & GRANTS

Excellent Youth Entrepreneur of Nanshan, Shenzhen   2017

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

Cyberport Creative Micro Fund, Hong Kong   2016

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

PROJECT & EXPERIENCE

Associate Founder, AICAMP.CO.,LTD, Hong Kong   2019-Present
- *AID*. I created an open-source system for publishing, discovering, deploying, optimizing and monitoring deep learning models.

Research Assistant, CVLab, Shenzhen University, Shenzhen, China   2018-2019
Advisor: Prof. Dr Shiqi Yu
- *Industry AI*. We created a computer vision platform for online labelling, training, and testing.

Bachelor Thesis, CVLab, Shenzhen University, Shenzhen, China   2017
Advisor: Prof. Dr Shiqi Yu
- *Multi-Block Local Binary Pattern in OpenCV*. I modified the Multi-Block Local Binary Pattern from Prof. Shiqi Yu's version and integrated it into a fork of OpenCV. I learned the traditional face detection process, especially Viola-Jones's algorithm (haar-like features, cascade classifier and AdaBoost) and LBP related algorithms from this thesis.

SIAT, Chinese Academy of Sciences, Shenzhen   2017 - 2018
Data Scientist Intern, Precision Medicine Lab
- *Foodie - Healthy and Diet Food Recommendation.* We developed a recommendation system to help users take their taste and body conditions into consideration for eating. I learned and implemented the recommendation system based on the wide and deep model from TensorFlow, crawled the nutrition data and built the backend.

TEACHING EXPERIENCE

Universität Zürich, Zürich   2020 - 2021
Teaching Assistant,
  Informatics-1 (Intro to Programming and Data-Oriented Programming)
  Informatics-2 (data structures and algorithms)

Shenzhen University, Shenzhen   2014 to 2017
Teaching Assistant, Computer Science Department
  Professional English
  Web Programming
  Internet Application Development (Android)
  Data Structure and Algorithms
  Java Programming

PUBLICATIONS

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, Chen Yingying and Rongjie Liao. "Face Based Advertisement Recommendation with Deep Learning: A Case Study." International Conference on Smart Computing and Communication. Springer, Cham, 2017.

Conference Workshop Papers

Xiaozhe Yao "MLPM: Machine Learning Package Manager." MLSys 2020 Workshop for MLOps System.

COMMUNITY SERVICE

IAPR TC4 Winter School on Biometrics 2019
Photographer, Shenzhen, 13-17 Jan 2019

LANGUAGES

Chinese: Native Language
English: CEFR C1, Effective Operational Proficiency