

# Tianning YUAN

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## EDUCATION

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**University of Chinese Academy of Sciences (UCAS)**, Beijing, China *Sep. 2019 - Present*  
*Master Candidate* in Electronic and Communication Engineering

**Supervisor:** Prof. Qixiang Ye

**Core Courses:** Fundamentals of Pattern Recognition, Machine Learning Methods and Applications

**Tsinghua University (THU)**, Beijing, China *Sep. 2015 - Jul. 2019*  
*Bachelor of Engineering* in Electronic Information Science and Technology

**Core Courses:** Discrete Mathematics, Probability and Stochastic Processes, Computer Program Design, Advanced Matlab Programming and Application, Data and Algorithm, Digital Image Processing

## EXPERIENCE

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**University of Chinese Academy of Sciences**, Beijing, China *Jul. 2019 - Present*  
*Researcher* in Pattern Recognition and Intelligent System Development Laboratory

**Supervisor:** Prof. Qixiang Ye

Object Detection Based on Weakly Supervised Learning

**Tsinghua University**, Beijing, China *Oct. 2018 - Jul. 2019*  
*Research Assistant* in 3D Image Lab

**Supervisor:** Prof. Huimin Ma

Algorithm Design of Zero-shot Learning in Occlusion Image Recognition

**IEIT in Tianjin, Tsinghua University**, Tianjin, China *Jun. 2018 - Aug. 2018*  
*Intern* in Huaqing Ruishi (Tianjin) Technology Co., Ltd.

**Mentor:** Congxin Liu

Lesion (Optic Disc) Segmentation of Fundus Photo

## PROJECTS

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Object Tracking Based on Infrared Images *May. 2018 - Jun. 2018*

Human-computer Interaction System Based on Kinect Equipment and SDK Tools

*Mar. 2018 - Jun. 2018*

Face Detection Based on Color Histogram

*Jun. 2017 - Sep. 2017*

## PUBLICATIONS (GOOGLE SCHOLAR)

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- [1] Multiple Instance Active Learning for Object Detection  
**Tianning Yuan**, Fang Wan, Mengying Fu, Jianzhuang Liu, Songcen Xu, Xiangyang Ji, Qixiang Ye  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021*
- [2] Nearest Neighbor Classifier Embedded Network for Active Learning  
Fang Wan, **Tianning Yuan**, Mengying Fu, Xiangyang Ji, Qingming Huang, Qixiang Ye  
*Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), 2021*
- [3] Agreement-Discrepancy-Selection: Active Learning with Progressive Distribution Alignment  
Mengying Fu, **Tianning Yuan**, Fang Wan, Songcen Xu, Qixiang Ye  
*Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), 2021*