Qixin **Yan**

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Education

Tianjin University — *Tianjin, China*

B.S. in Electronic Information Engineering, GPA: 3.83/4, Rank: 3/95 — *Sept. 2015 - June 2019*

- **Outstanding Student, Triple-A Student, The Star of Self-Improvement, Top 10 Outstanding Youth National Encouragement Scholarship, Arawana Scholarship (Top 1%), etc.**

Tianjin University — *Tianjin, China*

M.S. in Information and Communication Engineering — *Sept. 2019 - Present*

- **Research Interest:** Image restoration, Image enhancement, Object detection, Image classification, etc.

Competition Awards

Data Science

2020	**3rd Place (top 1%)**, **Tianchi**/CVPR Aliproducts Challenge: Large-scale Product Recognition, also presented in CVPRW2020
2020	**7th Place (top 2%)**, BAAI Ultra-high Resolution EM Images Segmentation Challenge
2020	**15th Place (top 3%)**, **Tianchi** Solar Storm Identification Challenge Track 1: Sunspot Recognition
2019	**6th Place (top 1%)**, Data Fountain National Weather Recognition Algorithm Challenge
2019	**3rd Place**, **ICDAR** Competition on Robust Text Reading from Large-scale Street View Images with Partial Labels Task 2: End-to-end text spotting
2019	**Geek Award**, The First National Algorithm Innovation Challenge

Mathematics

2017	**Championship**, Shenzhen Cup National Mathematical Modelling Challenge Final
2017	**1st Prize**, Contemporary Undergraduate Mathematical Contest in Modeling, Tianjin Division
2018	**2nd Prize**, The Interdisciplinary Contest in Modeling (ICM)
2016	**3rd Prize**, National College Students Mathematical Competition
2016	**2nd Pize**, Tianjin Undergraduate Mathematical Contest

Research Experience

SenseTime Group Ltd — *Beijing, China*

Research Intern at the OCR Group — *Jan. 2019 - May. 2019*

- Designed an synthetically supervised feature learning network for scene text recognition.
- The proposed multi-task framework significantly improved the performance of recognition on challenging cases.

National College Students' Innovation Project — *Tianjin, China*

Project Leader — *May. 2017 - Jun. 2018*

- Designed a dual-branch generator and a multi-scale discriminator to adversarial learning for haze removal.
- Proposed a task-driven training scheme that jointly fine-tunes dehazing network with Faster R-CNN.
- The framework exhibits superior performance on haze removal and detection in hazy weather condition.

Papers in Progress

CVPR 2021	Imaging with Hidden Camera: A Light-weight Wavelet Network with Pyramidal Distillation for Restoring Under-Display-Camera Images
CVPR 2021	A Holistic Framework for Dehazing and Object Detection via Domain Alignment and Feature Sharing
CVPR 2021	Semi-supervised Dehazing via Domain Translation and Neural Architecture Search
IEEE TCSVT	Image Reflection Removal via Contextual Feature Fusion Pyramid and Task-driven Regularization
IEEE TIP	Deep Dehazing Network with Latent Ensembling Architecture and Adversarial Learning