

# Haoxin YAN

✉ yanhaoxin1207@gmail.com | ☎ +86-13121226081 | 📍 Beijing, China

OBJECTIVE: Passionate AI engineer working on efficient AI algorithms for mobile camera systems

## EDUCATION

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**M.Eng. Instrument and Meter Engineering** | *Tsinghua University* AUGUST 2019 - AUGUST 2022

Tsinghua-RWTH double degree program

Thesis: Deep Transfer Learning Research on Industrial Defect Detection

**M.Sc. Production Systems Engineering** | *RWTH Aachen University* OCTOBER 2019 - AUGUST 2020

Tsinghua-RWTH double degree program

Thesis: Deep-Learning-Driven Reconstruction of Optical Diagnostic Data of Turbulent Combustion

**B.Sc. Instrumentation Engineering** | *Beihang University* SEPTEMBER 2015 - JULY 2019

Courses: Digital Imaging Processing, Deep Learning, etc.

## WORK EXPERIENCE

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**Xiaomi Corporation** | *Algorithm Engineer* AUG 2022 - NOW

Working towards enabling camera AI algorithms on power-constraint mobile devices for better image quality and user experience.

- **Video Raw Denoising:**
  - A comprehensive solution for AI video denoising given any specific sensor. We established a complete process from noise model calibration, public image unprocessing, baseline model training to finetuning using real-world collected samples.
  - Quantization
- Collaborated in an **Agile/Scrum** team of 8 engineers to deliver new features every 2 weeks.

## TECHNICAL PROJECTS

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**Personal Project** | *Expressive Resume* NOV 2021 - DEC 2021

- Created a **L<sup>A</sup>T<sub>E</sub>X** class that makes it easy for anyone to quickly create a beautiful resume and cover letter.