

# YAN FENG

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## EDUCATION

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**Tsinghua University**, China

Sep. 2018 - Graduating in Jul. 2021

Master of Engineering, Department of Computer Science

**Average:** 3.55/4, **TOEFL:** 98

**Beihang University** (Beijing Univ. of Aero. & Astro.), China

Sep. 2014 - Jul. 2018

B.E. in Computer Science and Technology, Department of Computer Science

**Average:** 92.1/100, **Ranking:** 1%/223, **CET-6:** 623

## RESEARCH AND WORK EXPERIENCE

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**Computer Vision Group**, Tencent AI Lab

Oct. 2019 – Now

- Focused on score-based black-box attack methods. Learned the distribution of adversarial examples with flow-based generative models and utilized that as the prior search distribution.

**Research Group of Shu-Tao Xia**, Tsinghua University

Jan. 2019 – Sept. 2019

- Focused on trustworthy machine learning for models like neural networks.
- Designed attack algorithms to exploit the weaknesses of neural networks, and proposed defense methods to improve the robustness of the models.
- Proposed a bilateral privacy-preserving federated learning scheme, which not only allows clients to train over the noisy global model, but also ensures only the server can obtain the exact updated model.
- Papers accepted by top conferences (CCF-A) in artificial intelligence field, i.e. AAAI (first author) and ICCV (co-first author).

**Intelligent Video Group of Research Institute**, SenseTime

Nov. 2017 – Jun. 2019

- Developed and updated traffic-related algorithms like license plate recognition, monocular video vehicle speed measurement, and cross-view scene matching.
- Developed a large scale real time pedestrian/vehicle trajectory recovery platform supporting over 10,000 surveillance cameras in Shenzhen.

**Selected Coursework**

Sep. 2014 – Jun. 2018

- MIPS Compiler: Translates the source code from extended C0 grammar to MIPS.
- MIPS CPU: 5-stage pipeline on RISC architecture, runs on FPGA board correctly.

## HONORS AND AWARDS

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- Second Prize Scholarship of Tsinghua University (top 5%), 2019.
- Annual Excellent Intern Award, SenseTime (top 10%), 2018.
- Excellent graduate of Beijing (top 1%), 2018.
- Core Intern Award, SenseTime (top 10%), 2018.
- National Scholarship, twice in 2015, 2016.
- 2<sup>nd</sup> prize, Chinese Mathematics Competition, 2015.