

EDUCATION

- **Shanghai Jiao Tong University (SJTU)** Shanghai, China
B.E. in Cyber Security (Information Security Department in SEIEE); Sept. 2015 – June. 2019 (Expected)
 - **GPA:** 3.96/4.3 (91.4/100)
 - **Rank:** Major: 2/98; Overall: 2/98

PUBLICATIONS

- **Multiple Character Embeddings for Chinese Word Segmentation.** May.2018
Submitted to EMNLP 2018: 56th Annual Meeting of the Association for Computational Linguistics. (First author)
- **One Bit Matters: Understanding Adversarial Examples as the Abuse of Data Redundancies.** May.2018
Submitted to NIPS 2018: Annual Conference on Neural Information Processing Systems.
- **The Helmholtz Method: Using Perceptual Compression to Reduce ML Complexity.** April.2018
Submitted to ACM MM 2018: ACM Multimedia Conference for 2018. (Second author)
- **Data Mining and Password Generation Based on Large-Scale Real Plain Passwords.** Feb.2018
Submitted to Journal of Computer Research and Development (Chinese, EI). (First author)
- **LiDAR-Video Driving Dataset: Learning Driving Policies Effectively.** Nov.2017
Accepted by CVPR 2018 : IEEE Conference on Computer Vision and Pattern Recognition. (Co-First author)
- **Overview of Plaintext Password Generation Models.** Oct.2017
Accepted by Chinese Computer Engineering and Applications Journal. (Chinese) (Second author)

AWARDS

- **National Scholarships (top 2%)** 2016, 2017
- **SJTU Outstanding Scholarships Level-A (top 1%)** 2016, 2017
- **Meritorious Winner Prize of Mathematical Contest in Modeling (MCM)** 2018
- **Second Prize in National College Students Information Security Competition (NCSISC)** 2017
- **Second Prize in The Chinese Mathematics Competitions (CMC)** 2017
- **Third Prize in Parts of The National Physics Contest for College Students** 2016
- **SJTU Merit Students** 2016, 2017
- **SJTU Excellent League Cadres** 2016, 2017

RESEARCH EXPERIENCES

- **SJTU Machine Vision and Intelligence Group (MVIg)** CS, Shanghai
Advised by Research Professor Cewu Lu Apr. 2017 - Present
 - **3D Object Detection PointNet/PointCNN:** Design a novel end-to-end network which generates bounding boxes wiser than VoxelNet by combining farthest sampling, segmentation PointCNNs and RPN network.
 - **LiDAR-Video Benchmark for Auto-driving:** Build a benchmark designed for policy learning which has combined 3D and 2D information scanned by high-precision sensors. Answer the questions why the depth information matters and how to leverage depth effectively.
- **SJTU PRP Program: Data Mining and Analysis of Plain Passwords** IS, Shanghai
Advised by Associate Professor Gongshen Liu. Project evaluation: Excellent (Top 10%) Jan 2017 - Oct 2017
 - **Data Mining on Large-Scale Real Plain Password:** Analyse the implicit rules for users when creating passwords in real scenarios based on two hundred million leaked real passwords.
 - **Password Generation Model:** Survey and reproduce the representative models. Firstly apply GAN to password generating scenario, which outperforms other the state-of-the-art models such as OMEN (Markov in essence), PCFGs and pure-LSTM/GRU.
- **Dynamic Searchable Encryption System Based on Graph Database** IS, Shanghai
Advised by Associate Professor Lei Fan. Honor: National second prize in NCSISC Mar. 2017 - Aug. 2017
 - **Algorithm Improvement on Parallel Dynamic Searchable Symmetric Encryption:** Simplify and improve the original algorithm proposed by Seny Kamara and also propose several additional policies to enhance security.
 - **The Back-end Implementation Based on The Graph Database :** Implement our improved algorithm utilizing Neo4j Graph Database and successfully validate it based on large-scale ciphers.

SKILLS & PROJECTS

- **Programming Language:** Python, Java, C++, Matlab
- **Deep Learning Framework:** Tensorflow, Pytorch, Keras, Dynet
- **Computer Vision:** OpenCV, PCL, CloudCompare, MeshLab
- **Projects:** JKSniffer (network sniffer), SuperAlarm (android app), DSSE-GraphDB (Work for National Competition)