Shuai Yuan 袁帅

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Education:

B. S. in Computer Science, K. Y. Honors School, Nanjing University, China

2014.9-2018.6

- <u>Kuang Yaming Honors School</u> is one of the National Training Bases for Talented Students ("Elite Program") certified by China's Ministry of Education, which only admits the top 5% of newly admitted freshmen
- Overall GPA: **4.59/5.00**, ranking **1/41** in the Computer Science Elite Program
- Specialization: Machine Learning and Statistics; TOEFL: 114, GRE general: 333

International exchange student (non-degree), Duke University, USA

2016.8-2016.12

• Visiting International Student Program (VISP), Computer Science, GPA: 4.00/4.00

Research Experience:

Nanjing University LAMDA (Learning And Mining from DatA) group

2017.3-2018.5

- Supervisor: <u>Prof. Zhi-Hua Zhou</u> (Fellow of the ACM/AAAS/AAAI/IEEE)
- Contributed open source code for the models gcForest (deep forest) and eForest (forest auto-encoder)
- Currently working on improving deep forest by adding in decision path information as final-year thesis defense.

Stanford University online research project

2017.9-2018.3

- Supervisor: Prof. Tsachy Weissman (IEEE Fellow)
- Won first place in the research project competition "Optimal Estimation of the Differential Entropy"
- Worked on generating a tighter exponential concentration bound of the KL-Divergence for empirical estimation

Duke University undergraduate research program

2016.8-2016.12

- Supervisor: <u>Prof. Carlo Tomasi</u> (ACM Fellow)
- Enrolled in a one-on-one Research Independent Study program and achieved final grade A+
- Developed image path metrics based on EMD Model and tried to apply these metrics in Manifold Learning

Work Experience:

Data analyst intern, Toplore Bio-Tech, Nanjing, China

2018.7-2018.8

Analyzed cell images and predicting cancer cells

Undergraduate teaching assistant, Nanjing University, China

2017.9-2018.1

- Helped to teach course *Problem Solving III* for sophomore undergraduate students
- Specifically, grading students' weekly written assignments and holding discussion sections

Quant intern, Tianfeng Securities, Shanghai, China

2016.7-2016.8

- Implemented statistical methods on financial decision-making models by computer simulations
- Specifically, predicted potential profits of strategies based on Investor Sentiment Index Models

Honors & Awards:

- Global level:
 - > Rank 1/18, Qingfan project competition "Optimal Estimation of the Differential Entropy", 2017 (top 6%)
 - ➤ Meritorious Winner, Mathematical Contest in Modeling, 2016 (top 8% worldwide)
- National level:
 - First Prize of Elite Program Scholarship Award, 2015 (top 10% among Elite Program students)
 - First Prize of People's Scholarship Award, 2015 (top 5%)
- University level:
 - > Outstanding Student Award (aka "Dean's List") of Nanjing University in both 2015 and 2016 (top 3%)
 - > Second Grade Award of the 19th Forum of Sciences & Arts of Nanjing University, 2016 (top 15%)

Technical Skills:

- Computer programming by various languages including C/C++, Python, MATLAB and R
- Basic distributed computing techniques including Python joblib and Spark (PySpark)
- Computer experimenting skills on Linux-based servers using SSH
- Data visualization tools including Excel and Python Seaborn

Leadership & Social Activities:

Volunteer translator, Coursera, part-time online

2017.8-2017.9

- > Translated part of video subtitles into Chinese for two deeplearning ai courses taught by Prof. Andrew Ng
- Vice President, Students' Union of Kuang Yaming Honors School

2015.7- 2016.7

- ➤ In charge of student academic activities; major contributions including organizing a university-level essay contest and 6 public lectures/seminars
- > Increased activity popularity (measured by number of participants) by 25% over the previous best record
- Volunteer & Chinese tutor, the Amity Foundations, China

2014.8-2014.8

- Received German volunteers and helped them go through the Summer Training Program (STP)
- Worked as a Chinese language tutor for foreign learners in the Young Adult Program (YAP)
- > Studied elementary-level German language (A1 Level by European standard)