Wenda Qiu

✉ *qiuwenda@sjtu.edu.cn* *akigeor.github.io* *Shanghai Jiao Tong University*

Objective

I am an undergraduate student from Shanghai Jiao Tong University (SJTU) **ACM Honors Class**, **Zhiyuan College** (an honors college) and major in computer science. I have a great passion on my major and enjoy conducting scientific research. I am determined to join the academia in the future.

Education

2015.9–2019.6 (Expected)

Bachelor of Engineering, *Computer Science and Technology*.
Shanghai Jiao Tong University **ACM Honors Class**, **Zhiyuan College**, GPA: 3.5/4.0

Experience

University of Illinois at Urbana-Champaign, 2018.7–2018.12

Research Assistant guided by Prof. Jiawei Han.
I worked as a visiting research assistant at University of Illinois at Urbana-Champaign under the instruction of Prof. Jiawei Han since July 2018. My research topic is about text data mining.

- **Synonym-Aware Entity Set Expansion**
  Synonym detection and semantic entity set expansion are both fundamental tasks for many applications.
  - Proposed a novel framework to combine entity set expansion with synonym set discovery and to enable two tasks to mutually enhance each other.
  - Formulated the entity set expansion as a positive-unlabeled learning task and designed an effectively ensemble-based linear classifier to solve this task efficiently.
  - Conducted extensive experiments on 10 manually selected semantic classes and demonstrated the proposed framework could improve the state-of-the-art methods by 48% relatively in terms of MAP@100.

Shanghai Jiao Tong University, 2017.7–2018.6

Research Assistant guided by Prof. Hongtao Lu.
I worked as a research assistant at Shanghai Jiao Tong University under the supervision of Prof. Hongtao Lu. My research topic is image style transfer using image-to-image networks which belongs to computer vision field.

- **Image Style Transfer**
  Image style transfer is an impressive application of generative models.
  - Conducted extensive literature survey and implemented image-to-image networks including VAE, GAN and W-GAN in Pytorch.

Shanghai Jiao Tong University, 2015.6–2017.5

Shanghai Jiao Tong University ACM-ICPC Team Member.
I joined SJTU ACM-ICPC (a world-wide team-based computer problem solving competition) group since summer of 2015.

- **World Finals 2017**
  Represented Shanghai Jiao Tong University in the ACM-ICPC World Finals 2017. Our strong teamwork ensured us a deserved champion in Asia Tsukuba regional 2016 and we advanced to World Finals 2017.

Shanghai Jiao Tong University, 2017.6–2018.4

Shanghai Jiao Tong University ACM-ICPC Team Leader.
I served as the leader for representative team of our university.

- **World Finals 2018**
  Stood out in regional contests and won the qualification to participate in ACM-ICPC World Finals 2018. As the most senior student in the team, I brought all my experiences into play and our team achieved a silver medal in the World Finals 2018.

Awards

2018.4 **ACM-ICPC World Finals 2018, 8th Place**, *Silver Medal*.

2017.5 **ACM-ICPC World Finals 2017, 13th Place**.

2017.11 **The 2017 ACM-ICPC Asia Beijing Regional Contest, 2nd Place**, *Gold Medal*.

2016.10 **The 2016 ACM-ICPC Asia Tsukuba Regional Contest, 1st Place**, *Gold Medal*.

ACM-ICPC stands for ACM International Collegiate Programming Contest. You may find a full list of my ICPC awards at icpc.baylor.edu/ICPCID/TSIL76L1GG4Y.

2016, 2017 **Zhiyuan Honorary Scholarship**, *SJTU top 5%*.

Zhiyuan College offers an honors program and scholarship to selected students among SJTU Top 5% undergraduate students.

2014.7 **The 2014 National Olympiad in Informatics of China**, *Silver Medal*.

Manuscripts

2018.12 **Wenda Qiu***, Jiaming Shen*, Jingbo Shang, Michelle Vanni, Brian Sadler, and Jiawei Han. *SynSetExpan: Synonym-Aware Entity Set Expansion*, In preparation for KDD 2019.
*Equal Contribution

Projects

Advanced Data Structure — Led a team of three people and implemented several advanced data structures including:
- Y-Fast-Trie, a structure storing integers from a bounded domain.
- Dominator Tree, a structure finding dominators in control flow graphs.
- Rank-pairing-Heap, a priority queue works $O(\log n)$ amortized time in delete-min operation and $O(1)$ in others.

MIPS CPU — Implemented a CPU with five-stage MIPS pipeline using Verilog programming language.

Benchmark for Visual Question Answering — Proposed an effective evaluation method involving focus map analysis to measure how a visual question answering (VQA) system's reasoning capability rather than remembering the bias to get correct answers.

Attack on Image-to-image Networks — This is a group project for a research course given by Prof. John Hopcroft.
Conducted experiments studying how adversarial examples (intentional noise added to input) mislead an image-to-image network's output.

Next Frame Synthesizing — Studied and applied β-VAE and optical flow in frame synthesizing task to get a more precise prediction and a disentangled latent vector where each dimension controls a part's movement.

Skills

Programming Languages — C++, Python, Java, Pascal

Deep Learning Platforms — Pytorch, Tensorflow

Computer Skills — Git, Vim, LaTeX, Microsoft Office

English — TOEFL iBT 104/120