

Wenda Qiu

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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 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