Zhe Wang

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EDUCATION

Washington University in St. Louis   St. Louis, the United States
Computer Science, Ph.D.   *Aug. 2018 – Present*

Beijing Normal University   Beijing, China
Computer Science and Application, Master of Science   *Sept. 2015 – Jun. 2018*

Wuhan University   Wuhan, China
Electronic Information Engineering, Bachelor of Engineering   *Sept. 2011 – Jun. 2015*

EXPERIENCE

Washington University in St. Louis   St. Louis, the United States
Ph.D. student, mentored by Prof. Kunal Agrawal   *Aug. 2018 – present*
- **Multiprogrammed Parallel Runtime System for Cilk Language**:
  Developed a new **parallel runtime system** which can concurrently run multiple **Cilk** programmed jobs;
  Developed an efficient preemption, enabling core reallocation among jobs with low overhead and low latency;
  Designed a customizable interface for users to develop their job schedulers.

Open Compass   Beijing, China
Core team member   *Jan. 2015 – Present*
- **Open Compass, the first explorable map of open source**:
  Developed an **explorable visualization** system presenting open-source communities with **WebGL**;
  Developed a distributed backend crawling and managing open-source data by **MongoDB** and **Redis** and **Python**.
  online video: https://youtu.be/cR5EzjVhwyk

VMware   Beijing, China
Lead inventor   *Jan. 2015 – Jun. 2018*
- **(U.S. patent, no.10529100, first author) IVF, an interaction-driven format for graph visualization**:
  Designed a **file format** abstracting user interactions with **graph visualization**;
  Developed prototypes of the reader and writer by **WebGL**.

Key Laboratory of Digital Protection and Virtual Reality, Beijing   Beijing, China
Research Assistant   *Sept. 2015 – Jun. 2018*
- **Chinese Painting 3D**:
  Designed an **interactive 3-d modeling** method to create 3-d terrain from Chinese Painting;
  Developed web-based interactive 3-d modeling and water rendering system via **WebGL**.

The Ionosphere Laboratory, Wuhan University   Wuhan, China
Research Assistant, mentored by Prof. Chen Zhou   *Sept. 2012 – Jun. 2014*
- **Visualization of Ionosphere parameters**:
  Developed a **volume rendering** system to visualize Ionosphere Parameters via **OpenGL** and **WebGL**.

PRESENTATIONS

- Keynote Speech, Open Compass, China Open Source Conference, Beijing, China, Oct. 2016.

- Keynote Speech, Open Compass, Open source China, open source world conference, Beijing, China, Jun. 2016.

- Won the 2nd Prize of Intel Cup Undergraduate Electronic Design Contest – 2014 Embedded System Design Invitational Contest, Chinese Ministry of Education, Shanghai, China, July. 2014.

PUBLICATIONS

- Ren P, **Wang Z**, Fan Y, et al. A Rapid Modeling Method for 3D Architectural Scene[C]// International Conference on Cyberworlds. IEEE Computer Society, 2016:9-16 (Best Paper Award).