

# Kui Wang

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## Profile

A passionate and skilled computer software engineer seeking for career opportunities in information visualization and visual analytics for biomedical research.

- Technical skills: JavaScript, D3.js, Python, C, C++, R, MATLAB, Haskell, ArcGIS.

## Education

### **Master of Engineering, Computer Science**

Sept. 2015 – Jun. 2016

*Oregon State University, Corvallis, OR, USA*

- Courses: Algorithms & Data Structures, Database Management System, Computer Architecture, Parallel Programming, Operating Systems, Computer Graphics, Computer Vision.

### **Bachelor of Science, Geographic Information System**

Sept. 2009 – Jun. 2013

*China Agricultural University, Beijing, China*

- Courses: Digital Image Processing for Remote Sensing, Principles of Digital Surveying and Mapping, Spatial Analysis, Photogrammetry, Principle of Remote Sensing, GPS Principle.

## Experience

### **Research Trainee**

Dec. 2016 – Present

*Mayo Clinic, Department of Health Sciences Research, Rochester, MN*

- Design and implement interactive online visualization tools for high-dimensional data in healthcare.
- Develop interactive visualizations of biomedical data model and geographical information.
- Demo can be found at <https://wangku.github.io/Visualizations/KuiWang.html>.

### **Remote Sensing Internship**

May. 2013 – Jun. 2013

*Ministry of Land and Resources, Land Management Center, Beijing, China*

- Collect remote sensing data from the entire country and conduct accuracy analysis.
- Process remote sensing data with ArcGIS and field studies to determine land use types.

## Projects

### **Solar System Engine**

Sept. 2015

- Realize a 3D animated solar system simulation by using OpenCL and OpenGL.
- Design a particle system with concept of parallel programming to present the comet tail in an ellipse orbit.

### **Automated System Testing**

Jun. 2016

- Implement the fuzz testing modules running in qemu Linux system kernel to automatically detect coding errors and security loopholes.

## Publications

Shen, S., Wang, K., Shen, Z., & Zhao, M. (2013). *Design and implementation of invasive alien plants online survey system based on Google Maps*. Journal of Central South University (Science and Technology), S1.