

# Jiarui Xing

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## EDUCATION

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**Washington University in St. Louis (WUSTL)**

St. Louis, MO

*Master of Science in Computer Science**Aug. 2017-May 2019*

GPA: 3.67/4.0; GRE: 325 (V 155, Q 170, AW 3.0)

**Beijing Normal University (BNU)**

Beijing, China

*Bachelor of Science in Electronic Information Science and Technology**Sep. 2013-July 2017*

GPA: 86.18/100

**University of California, Santa Barbara (UCSB)**

Santa Barbara, CA

*School Exchange Program (No degree)**Sep. 2016-Dec. 2016*

GPA: 3.60/4.0

## Publications

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- **Jiarui Xing**, Shuxiao Wang, Zihao Zheng, “Model Construction and Quantitative Analysis of Taxi-Hailing Subsidy Scheme” [J]. American Journal of Traffic and Transportation Engineering, 2017, 2 (1): 1-5.
- **Jia-Rui Xing<sup>a</sup>**, Shuxiao Wang<sup>b</sup>, Zihao Zheng<sup>b\*</sup>, “Research on the Relationship between the Software Subsidy Scheme of a Taxi and the Ease of Hailing a Taxi” [C]. International Conference on Information Engineering and Communications Technology, Shanghai, 2016. DEStech Publications, Inc., 2016, 214-219.
- Zi-Hao Zheng<sup>1,a</sup>, Shu-Xiao Wang<sup>2,b</sup>, **Jia-Rui Xing<sup>3,c\*</sup>**, “The Complex Index System of Water Scarcity Based on the Grey Neural Network Model” [C]. International Conference on Civil, Structure, Environmental Engineering, Guangzhou, Advances in Engineering Research, 2016. Atlantis Press, 2016, 210-218.

## RESEARCH EXPERIENCE

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**Deep-learning Based MRI Denoising (In Progress)**

St. Louis, MO

*WUSTL CS Master Project**08/2018-Present*

- The goal of this project is to reduce the scanning time of MRI techniques and retrieve clear images from noisy ones by using deep-learning-based imaging denoising techniques
- Try different neural network architectures, such as U-Net and GAN, as well as different loss functions, such as weighted L2-loss and perceptual loss. Compressed sensing and unsupervised denoising methods will also be experimented if time allows

**Graph Representation for Text Classification**

St. Louis, MO

*WUSTL CS Master Project**03/2018-08/2018*

- Modeled text with graph to better capture multitype and longer-term dependencies in the texts
- Used graph kernel, graph embedding graph convolutional network and other related techniques

**Virtual Fitting System Based on 3D Reconstruction**

Beijing, China

*Beijing Science and Technology Innovation Program**06/2014-05/2015*

- 3D reconstruction using Kinect and OpenGL

**Hand-written Chinese Character Recognition System**

Beijing, China

*Computer Vision Course Practice**03/2016-05/2016*

- Image classification using image filters and SVM classifier
- Independently accomplished the project approval and route design, and implemented the code
- Compiled a complete document for software development

## INTERNSHIP EXPERIENCE

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**Chinasoft International Limited**

Beijing, China

*Intern**07/2016*

- Developed the software part of a Linux-based embedding sensing system with Qt

**Shanxi Sino-quality Credit Connectivity Information Technology Co., Ltd**

Taiyuan, China

*Intern**07/2016-09/2016*

- Participated in the development of the special inspection institute part of the elevator Internet of Things platform using C#, ASP.NET and SQL Server

**ACHIEVEMENTS/AWARDS**

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- Excellent Intern in Chinasoft International Limited *07/2016*
- Honorable Mention in Mathematical Contest In Modeling/Interdisciplinary Contest In Modeling *01/2016*
- First Prize in Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM), Beijing *10/2015*
- First Prize in BNU Mathematical Modeling Contest *05/2015*
- Second Prize in “Jingshi Cup” Contest for Extracurricular Academic Technology Works, BNU *05/2015*
- Third prize in the National Youth China Adolescents Science & Technology Innovation Contest *05/2015*
- Third Prize in BNU International Collegiate Programming Contest (ACM) Freshmen Contest *12/2013*

**TECHNICAL PROFICIENCIES**

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- Programming skills: Python, MATLAB, C++, C#, HTML and PHP
- Language proficiencies: Mandarin (native), English (proficient)