Jiarui Xing

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EDUCATION

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

- **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**[a], Shuxiao Wang[b], Zihao Zheng[b*], "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[1,a], Shu-Xiao Wang[2,b], **Jia-Rui Xing**[3,c*], "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

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

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

- 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

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