JUNWEI DENG

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EDUCATION

University of Michigan - Ann Arbor *Expected on Apr. 2021*
Master of Science in Information (Data Science Track) ***GPA: 3.8***
• Coursework: Information Visualization, Data Manipulation, Machine Learning, Programming
Shanghai Jiao Tong University (UM-SJTU Joint Institute) *Expected on Aug. 2020*
Bachelor of Science in Electrical and Computer Engineering ***GPA: 3.82 Rank: 1/162***
• Coursework: Data Structure, Algorithm, OS, Computer Organization, Computer Network, Hadoop

RESEARCH & PROJECTS

Graph Neural Network Coldstart Model Develop *Sept. 2019 - now*
University of Michigan - The Foreseer Research Group, Ann Arbor, U.S
• Cleaned and constructed the dblp data-set on GreatLake, and implement base line models.
Cell Classification, Detection and Segmentation of Cytology Image *Mar. - Sept. 2019*
Shanghai Jiao Tong University - Advanced Computer Architecture Laboratory, Shanghai, China
• Design, implement and tuning a hybrid network based on ResNet and U-Net.
• Implement the PatchMatch method and improve it to adapt the task to removel unwanted cells.
• Complete the papers and posters concerned about the research area with my tutor(Jing Ke).
Platform for Automatically Downloading & Processing Tsunami Data *Feb. - Sept. 2018*
Shanghai Jiao Tong University, Naval Architecture, Ocean & Civil Engineering, Shanghai, China
• Designed and implemented the platform by Python to save tsunami researchers' time
• Visualized the tsunami data as HTML map to produce a quicker retrieval for tsunami researchers
• Maintain the platform on Github to ensure its long-term availability

WORK EXPERIENCE

Teaching Assistant(VG100[=Engineering 100 @Umich]) *May. - Aug. 2018*
Shanghai Jiao Tong University (UM-SJTU Joint Institute), Shanghai, China
• Guided six course projects' design, procurement, implementation and presentation and one of them was awarded "Best Innovation Award" in design EXPO
• Graded 200+ assignments to ensure their ability to express their technical thinking.
Software Engineering Intern *Feb. - May. 2019*
Maver Medical, Shanghai, China
• Designed a light-weight neural network to solve a resistance network back-stepping problem.
• Code over 20 signal filter by C++ and the code is used in developing medical instrument.

PUBLICATION

• [Full Paper] J. Ke, **J. Deng**, Y. Lu, D. Wang, Y. Song and H. Zhang. Assessment and Elimination of Inflammatory Cell: A Machine Learning Approach in Digital Cytology. DICTA 2019(Oral) [to appear].
• [Full Paper] **J. Deng**, Y. Lu, and J. Ke. 2020. An Accurate Neural Network for Cytologic Whole-Slide Image Analysis. In Proceedings of the Australasian Computer Science Week Multiconference.
• [Poster] J. Ke, **J. Deng**, and Y. Lu. Noise Reduction with Image Inpainting: An Application in Clinical Data Diagnosis. In Proceedings of SIGGRAPH 19 Posters.

SKILLS & AWARDS

Languages & Applications: Python, C/C++, Latex, Matlab, JAVA, R, Tableau, SQL, Shell, Latex
National Scholarship, Ministry of Education of the People's Republic of China, 2018