Qiucheng Wu

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EDUCATION

University of Michigan — **Ann Arbor, MI**
Masters of Computer Science and Engineering — *Sept. 2019 - Present*
GPA: 3.94/4.0
Bachelor of Computer Science in Engineering — *Sept. 2017 - May 2019*
GPA: 3.93/4.0, summa cum laude

Shanghai Jiao Tong University — **Shanghai, China**
Bachelor of Electrical and Computer Engineering — *Sept. 2015 - Aug. 2017*

RESEARCH EXPERIENCE

• **Landmark Recognition in Vision Language Navigation** (VLN) — *Jan. 2020 - Present*
- Researched on agents abilities to build common ground between natural language and computer vision
- Design and implement test methods, replicate and refine SOTA models
- Working on an extension to build interactive VLN, targeting at 2021 ACL

• **Comparison between Human Attention and Linguistic Justifications** — *Sept. 2019 - Dec. 2019*
- Researched on relations between human attention and linguistic justifications on Visual Question Answering (VQA)
- Proposing methods to represent textual information visually for comparison, replicate test interface, collect and process data
- First author course project, full points

• **DataSifterText: Partially Synthetic Text Generation for Sensitive Clinical Notes** — *Jan. 2018 - Present*
- Researched on obfuscate and synthesis sensitive textual data
- Design, implement and tuning a model to synthesis text based on BERT
- Implement, test models and write poster for its previous work, Present in 2018 MIDAS Annual Data Science Symposium, *Most Interesting Methodological Advances*

TEACHING EXPERIENCE

• **Graduate Student Instructor: Intro to AI** (EECS 492) — *Sept. 2020 - Dec. 2020*
• **Instructor Assistant: Applied Honors Calculus** (Vv156, equivalent to MATH 156 in UMich) — *Sept. 2016 - Dec. 2016*
- Leading discussions & OH, design homework, grade exams
• Grader on Data Mining, Deep Learning, Intro to AI, Applied Linear Algebra, Intro to Computer Organization

WORKING & PROJECT EXPERIENCE

• **Personalized Food Classification Model** — *Nov. 2019 - Apr. 2020*
Fitly Inc.
- Design and implement the personalized model by fusing embedding vectors of images in search history with users' preferences
- Code deployed on real products using Amazon Beanstalk

• **Intel Akraino: Edge Cloud Game Architecture** — *May 2019 - Aug. 2019*
Intel and UM-SJTU Joint Institute
- Undergraduate Capstone Team Gold Prize
- Worked on edge servers to accelerate web communications

PUBLICATION

[Submitted Full paper] Nina Zhou, **Qiucheng Wu**, Zewen Wu, Simeone Marino, and Ivo Dinov, DataSifterText: Partially Synthetic Text Generation for Sensitive Clinical Notes. Submitted to JAMIA.

[Full paper] Marino, S, Zhou, N, Zhao, Yi, Wang, L, **Wu, Q**, and Dinov, ID. (2018) DataSifter: Statistical Obfuscation of Electronic Health Records and Other Sensitive Datasets, Journal of Statistical Computation and Simulation, pp: 1-23, DOI: 10.1080/00949655.2018.1545228.

[Full paper] Marino, S, Zhao, Y, Zhou, N, Zhou, Y, Toga, AW, Zhao, L, Jian, Y, Yang, Y, Chen, Y, **Wu, Q**, Wild, J, Cummings, B, Dinov, ID. (2020). Compressive Big Data Analytics: An ensemble meta-algorithm for high-dimensional multisource datasets, PLoS ONE, 15(8):e0228520, DOI: 10.1371/journal.pone.0228520.