Xiaohan Ding

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Homepage: https://xiaohand09.github.io/

Research group: http://lac.gmu.edu/sInvestigator/Project.html

EDUCATION

George Mason University   *Fairfax, VA, United States*

Master of Computer Science (Concentration in Machine Learning)   *08/2019 - present*

GPA: **3.67/4.0**

University of Jinan   *Jinan, Shandong, China*

Bachelor of Engineering in Network Engineering,   *08/2014 – 06/2018*

GPA: **3.58/4.0**

First-class merit-based scholarship for 2017, 2018; Best Graduation Thesis

Southeast University   *Nanjing, Jiangsu, China*

Online Course   *04/2017 – 05/2017*

PUBLICATION

- **PUBLISHED**

[7]. Gheorghe Tecuci [1,2], Dorin Marcu [1], **Xiaohan Ding** [1,2], Anya Parekh [1,3]. sInvestigator: Facilitating Inquiry-based Teaching and Learning of Critical Thinking Skills. *Innovations in Teaching and Learning Conference, George Mason University*, September 21-25, 2020.

[6]. (accepted) Xu Wu, **Xiaohan Ding**, Xin Zhao, Lin Wang, Bo Yang, Mazharul Islam and Xiaojing Zhang. Estimation of Water-cement Ratio of Hardened Cement Paste Based on Microstructure Image and Convolutional Neural Network. *2021 4th International Conference on Circuits, Systems and Simulation* (IEEE ICCSS 2021).

[5]. Yuyang Cai, **Xiaohan Ding**, Wei Li, Dunyu Liu, Jun Chen, Mingguo Ni, Kailong Xu, Jing Jin. Removal and recovery of SO2 and NO in oxy-fuel combustion flue gas by calcium-based slurry. *The 2020 5th International Conference on Advances in Energy and Environment Research* (ICAEER 2020).

[4]. Kun Liu, **Xiaohan Ding**, Jinmin Jiang and Hui Sun. Design and Development of Management Information System for Research Project Process based on Front-end and Back-end Separation. *The presentation at the 2017 International Conference on Computing Intelligence and Information System*, paper ID: CIIS 1109.

[3]. Kun Liu, Kun Ma, and **Xiaohan Ding**. Design of Teaching Aid System based on WeChat Public Platform. *Advances in Social Science, Education and Humanities Research*, ISSN 2352-5398, paper ID: C332.

[2]. Kun Liu, Hanjing Liu, and **Xiaohan Ding**. The Application of Data Mining Technology in Data Service of Micro Service Architecture. *International Journal of Technology Management*, ISSN 2309-477X.

- **IN PREP**

[*]. **Xiaohan Ding**, Carlotta Domeniconi, Prediction of COVID-19 Situation under Policy Control during Vaccination Period based on Evolutionary Game Theory.

[*]. **Xiaohan Ding**, Sentiment Analysis of Comic Emotional Picture-Fighting in Chinese WeChat based on Convolutional Neural Networks.

- **GRADUATION DISSERTATION**

[1]. **Xiaohan Ding**, Design and Implementation of the Evaluation System of College Students' Learning Ability Based on Blockchain, *University of Jinan*. (Best graduation thesis)

RESEARCH EXPERIENCE

[6] Research Assistant (Learning Agents Center)   *George Mason University*

Supervised by Professor **Gheorghe Tecuci**, George Mason University   *06/2020 -- present*

- NSF Program, related to NLP, Question Answering System, Expert System
- Gheorghe Tecuci [1,2], Dorin Marcu [1], **Xiaohan Ding** [1,2], Anya Parekh [1,3]. sInvestigator: Facilitating Inquiry-based Teaching and Learning of Critical Thinking Skills. *Innovations in Teaching and Learning Conference, George Mason University*, September 21-25, 2020.

[5] Deep Learning based on Embedded Devices   *University of Notre Dame*

Guided by Professor **Yiyu Shi,** University of Notre Dame   *10/2020 -- present*

- **(**IN PREP**)** <u>Xiaohan Ding</u>, Sentiment Analysis of Comic Emotional Picture-Fighting in Chinese WeChat based on Convolutional Neural Networks.
- Xu Wu, <u>**Xiaohan Ding**</u>, Xin Zhao, Lin Wang, Bo Yang, Mazharul Islam and Xiaojing Zhang. Estimation of Water-cement Ratio of Hardened Cement Paste Based on Microstructure Image and Convolutional Neural Network. *2021 4th International Conference on Circuits, Systems and Simulation* (IEEE ICCSS 2021).

[4] Data Mining of COVID-19 based on Different Factors in USA   *George Mason University*

Guided by Professor **Carlotta Domeniconi,** George Mason University   *06/2020 -- present*

- Created Infectious Disease Model
- Use Evolutionary Game Theory for decision analysis
- **(**IN PREP**)** <u>Xiaohan Ding</u>, Carlotta Domeniconi, Prediction of COVID-19 Situation under Policy Control during Vaccination Period based on Evolutionary Game Theory.

[3] (NSFC) Online Detecting Malicious Mobile Apps based on Network Traffic Analysis   *University of Jinan*

Supervised by Professor **Zhenxiang Chen**, University of Jinan   *02/2017--12/2017*

- Participated in designing cluster-based Android network traffic collecting platform
- Collected 1tb mobile data traffic
- Applied automatic facilitation technology to the activity components during the traffic collecting process

[2] Development of Enterprise Asset Information Management System   *University of Jinan*

Supervised by Professor **Liu Kun**, University of Jinan   *09/2016-12/2017*

- Responsible for developing Android asset information display system
- Designed splash screen and UI & Wrote jump routine for each activity

[1] (NSFC) Development of Postgraduate Teaching Management System   *University of Jinan*

Supervised by Professor **Liu Kun**, University of Jinan   *12/2014-12/2015*

- Engaged in system performance test and analysis
- Involved in post-improvement of system, including UI furnishing, art design, and code perfection
- Obtained software copyright

INTERNSHIP EXPERIENCE

Jinan Kingmon Information Technology Co., LTD   *Jun.-Oct. 2018*

- Position: Internet Programmer
- Engaged in developing the Student Capability Data System based on Blockchain

ACADEMIC EXPERIENCE

MIT & CASC Leadership Summer Camp   *University of California, Santa Barbara*

MIT Sloan School of Management; University of California, Santa Barbara   *Summer 2016*

- Proposed an idea of developing a healthy diet APP for calorie controlling and completed its UI design within the team
- Promoted personal goal setting, time management, project planning, teamwork, and communication skills

HONORS

- Best graduation thesis of University of Jinan   *2018*
- First-class merit-based scholarship for *Fall 2017* semester, *Summer 2018* semester   *2017,2018*
- The third place in Qilu Software Competition (Regional)   *10/2017*
- "Most popular individual" award and the third-place award in *National Internet Software Design Competition* for College Students   *04/2017*
- Certificate for EMC Academic Associate, Information Storage and Management   *2016*
- The best debater in school debate competition (Team leader of school debate team)   *2014*

COMPUTER SKILLS

Python, LaTeX, Java, MATLAB, R, Android, HTML5, JavaScript, MySQL, Solidity, Blockchain, Spark