

Xiaohan Ding

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

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

EDUCATION

George Mason University

Master of Computer Science (Concentration in Machine Learning)

GPA: 3.67/4.0

Fairfax, VA, United States

08/2019 - present

University of Jinan

Bachelor of Engineering in Network Engineering,

GPA: 3.58/4.0

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

Jinan, Shandong, China

08/2014 – 06/2018

Southeast University

Online Course

Nanjing, Jiangsu, China

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

[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) **Xiaohan Ding**, 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