

Sinong Wang

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Hunnan District, Shenyang City, Liaoning Province, China
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Research Direction: Deep Learning Algorithm, Digital Image Processing



EDUCATION

2020.9-2023.7(expected)	M.S., Software Engineering, Northeastern University (NEU), Shenyang, China Supervisor: Wei Zhang Overall GPA: 3.63/5.0 (Ranking 6/132) Main courses: Applied mathematical statistics, Advanced Artificial Intelligence, Advanced Software Engineering
2021.1-2022.7(expected)	M.S., Computer Science, The University of Texas at Arlington (UTA), Texas, USA Overall GPA: 4.0/4.0 (Ranking 1/27) Main courses: Machine Learning, Artificial Intelligence, Algorithm, DBMS Models and Implementation, Data Mining, Agile Development, Advanced DBMS
2016.9-2020.7	B.S., Non-woven Material and Engineering, DongHua University (DHU), Shanghai, China

AWARDS & CERTIFICATION

2021-2022	First Class Scholarship in NEU
2020-2021	Second Class Scholarship in NEU
2020-2021	Deep Learning Specialization - Coursera
2017-2018	Scholarship for Outstanding work in Society in DHU

RESEARCH EXPERIENCE

♠ 2021.04-Present

Supervisor: Wei Zhang

DeepLearning-based Super Resolution Algorithm via Feature Adaptive Restore

- **Research Purpose:** Solve the single image super-resolution algorithm based on deep learning from the following two aspects:
 - Adopt **Transformer Encoder** to abstract global features and apply it to whole image patches.
 - Add new constraint to shrink hypothesis space to find a more reasonable convergence position.

- **Research Achievements:**
 - a. Designed a new model which the performance on test set is in the first echelon, and the details of the model need to be optimized.
 - b. Coded a deep learning training and testing system based on PyTorch.
 - c. Summarized the two main directions to solve super resolution problem.
 - d. Familiar with low-level visual tasks, structured learning program, and basic model of CNN, Transformer, GAN, etc.

♠ 2021.10-Present

Supervisor: Wei Zhang

Deep Learning based Adaptive Colour Channel Real-world Image Denoising

- **Research Purpose:**
 - Use the imaging principle and basic features of digital image, more information is extracted through deep learning model to help image restoration.
- **Research Achievements:**
 - a. Designed a new model by combining traditional image processing algorithm and deep learning model.
 - b. Made a new real-world data set which contain real-world ground truth through control the different ISO and combine noisy images.
 - c. Designed a new Loss Function which consider the interaction of different channels.
 - d. Deepened the understanding of deep learning and image processing.

♠ 2021.08-2021.10

Supervisor: Khalili Barham

Agile Development Project: Personal Health Monitoring System (PHMS)

- **Research Purpose:**
 - Simulated Agile development of a complete system using Scrum methodBuild a personal health monitoring system
- **Research Achievements:**
 - a. Built a complete system through MySQL, Redis, Flask, html, Javascript.
 - b. Improved the ability of cooperation and communication.
 - c. Won the first place in all the projects.

RELATED EXPERIENCE

Red Packet Delivery Project, ByteDance Back-end Boot Camp 2021.10-2021.12

- Use go language to complete highly concurrent back-end code, including token bucket, message queue, etc.

PingAnHaoXue, Online education for teenagers 2020.06-2021.03

- Python teacher(part-time)

SKILLS

- Programming languages: good command of Python and C/C++ programming languages.
- Development Environment: Familiar with Linux development environment.
- Platform: PyTorch , OpenCV
- English level: CET-6 and preparing TOEFL & GRE.

东北大学硕士研究生成绩单

学号	2071317	姓名	王思依	性别	男	总学分	36.0
学院	软件学院		专业	电子信息			
课程名称			学分	成绩			
科学精神与人文素养教育（必修环节）			1.0	89			
Advanced topics in SE			2.0	95			
AI 1			2.0	95			
Cloud Computing			2.0	95			
Data Mining			2.0	95			
DBMS Models and Implementation			2.0	95			
Design and Analysis of Algorithms			2.0	95			
Machine Learning			2.0	95			
高级人工智能			2.0	91			
高级软件工程			2.0	79			
工程伦理			1.0	87			
跨文化交际			1.0	91			
软件工程案例分析			2.0	79			
软件体系结构			2.0	90			
数值分析			3.0	84			
硕士英语			2.0	免修			
应用数理统计			3.0	78			
中国特色社会主义理论与实践研究			2.0	85			
自然辩证法概论			1.0	76			

THE UNIVERSITY OF TEXAS AT ARLINGTON

Unofficial Transcript

Name: Sinong Wang
Student ID: 1001987663

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Institution Info: THE UNIVERSITY OF TEXAS AT ARLINGTON
Birthdate: 1997/06/12
Print Date: 2022/02/13

Academic Program History

Program: Masters
2021/04/05: Applicant
2021/04/05: Computer Science-MS (NT) Major

Beginning of Graduate Record

2021 Sum				<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
<u>Course</u>		<u>Description</u>					
CSE	5311	DSGN & ANLY ALGORITHMS		3.000	3.000	A	12.000
CSE	5331	DBMS MODELS AND IMPLEMENTATION		3.000	3.000	A	12.000
CSE	5360	ARTIFICIAL INTELLIGENCE I		3.000	3.000	A	12.000
CSE	6363	MACHINE LEARNING		3.000	3.000	A	12.000
Term GPA				<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
4.000 Term Totals				12.000	12.000	12.000	48.000
Cum GPA				12.000	12.000	12.000	48.000
Academic Standing Effective 2021/08/20: Good Standing							

2021 Fall				<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
<u>Course</u>		<u>Description</u>					
CSE	5334	DATA MINING		3.000	3.000	A	12.000
CSE	6324	ADV TOPS SOFTWARE ENGINEERING		3.000	3.000	A	12.000
CSE	6331	ADV TOPICS IN DATABASE SYSTEMS		3.000	3.000	A	12.000
Term GPA				<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
4.000 Term Totals				9.000	9.000	9.000	36.000
Cum GPA				21.000	21.000	21.000	84.000
Academic Standing Effective 2021/12/20: Good Standing							

2022 Spr				<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
<u>Course</u>		<u>Description</u>					
CSE	5344	COMPUTER NETWORKS		3.000	0.000		0.000
Term GPA				<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
0.000 Term Totals				3.000	0.000	3.000	0.000
Cum GPA				24.000	21.000	21.000	84.000
Graduate Career Totals							
Cum GPA:				24.000	21.000	21.000	84.000

End of Unofficial Transcript