

Hanbing Wang

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EDUCATION

Shandong University - Bachelor of Science in Communication Sep 2019 - Jun 2023

- **IELTS: 7.5**, GPA: 3.7/5.0 (4.18/5.0 in junior year) | Relevant Courses: **Pattern Recognition, Machine Learning and Deep Learning(95 #1st)**, Advanced Mathematics, Probability Theory, Linear Algebra
- Honors/Awards:
 - First Prize Scholarships in Research Innovation and Aesthetic Education Accomplishment(Top 3%)
 - Second prize in Mathematical Contest in Modeling of Shandong University.
 - Third Prize in National Mathematical Contest in Modeling
 - Third Prize in National Undergraduate Electronic Design Contest
 - Third Prize in 2021 National English Competition for College Students

RESEARCH EXPERIENCE

- Hold **three patents**.
- **Two papers** about machine learning were submitted to EI Compendex.
- Submitted a paper - **On the User Behavior Leakage from Recommender System Exposure** (XIN XIN, JIYUAN YANG, HANBING WANG, PENGJIE REN, ZHAOCHUN REN) as **second author** to TOIS (**Accepted**), which investigates the problem of **user privacy leakage** in recommender system.
- **Have finished** the paper about **multi-behavior recommendation** (WWW2023). We design a framework which can improve implicit recommenders through multi-behavior alignment in this work.
- Two papers on going:
 - One is about mitigating **fairness/bias** issues in **graph-based recommendations** (SIGIR2023). We are trying to design an **adaptive debiasing** framework which is able to learn **personalized** parameters via **multi-task learning, graph augmentation** and **reinforcement learning**.
 - Another is about **pretrained music recommendation**, collaborating with **Westlake University** and **Tencent**.

PROJECT EXPERIENCE

A full stack driverless assistant system based on Huawei Ascend (Embedded system, Edge computing, Computer vision) Jul 2021 - Dec 2021

- Invent a **standalone detection system** which can detect road lane information and show it on a website in **real time**.
- Involve the use of Atlas 200DK, Raspberry Pi, Zynq, and 3D-printing.

A real time image style transfer system (Computer engineering, Computer vision) Aug 2021 - Nov 2021

- Invent a real time **style transfer system** which can transfer the image/video style captured by a camera (e.g. mobile phone's) and display the results on a webpage in **real time**.
- Developed a **computer application** which can achieve style transfer as long as you download our app.

INTERNSHIP EXPERIENCE

Research Assistant - Information Retrieval Lab, Shandong University May 2021 - Present

I contribute to many laboratory projects and responsible for organizing academic seminar for RAs.

MISCELLANEOUS

- **Skills:** Python/C/Java, Springboot/React/Html, PR/PS
- **Languages:** English (IELTS: 7.5), Mandarin Chinese (Native)
- **Interests:** Piano (Gr. 10), Electronic Organ (Gr. 10), Badminton (SDU No.5 Men's Team)