

Rui Pan

rpan33@wisc.edu | (+1) 6089600303 | <https://ruipan.xyz>

EDUCATION

UW-MADISON

BS IN COMPUTER

SCIENCES + APPLIED MATH

Madison, WI, USA

Sep 2018 - Dec 2021 (Expected)

GPA: 3.97 / 4.00

LINKS

Github:// [ruipeterpan](#)

LinkedIn:// [Rui \(Peter\) Pan](#)

Facebook:// [Rui \(Peter\) Pan](#)

COURSEWORK

GRADUATE

Advanced Operating Systems

High Performance Computing (I/P)

UNDERGRADUATE

Algorithms

Artificial Intelligence

Bioinformatics

Computer Architecture

Computing Theory

Computer Vision

Database Systems

Data Analysis

Networking (I/P)

Operating Systems

Theory of Computing

Calculus

Combinatorics

Discrete Math

Numerical Linear Algebra

Probability

COURSERA

Big Data Systems (I/P)

Deep Learning

Software Engineering

Front-end Web Design

Back-end Web Applications

Cryptography

SKILLS

Proficient:

Python • Java • C • C# • HTML/CSS

Familiar:

R • Javascript • Docker • PyTorch

Some exposure:

PostgreSQL • Apache Spark • C++

ACADEMIC FOCUS

I am interested in everything system-ish. For now, I am focusing on building systems for large-scale distributed machine learning. In the future, I might also try some security & adversarial machine learning stuff.

RESEARCH

UNDERGRADUATE RESEARCH ASSISTANT | UW-MADISON

COMPUTER SCIENCES DEPARTMENT

May 2020 – Present | Advisor: Prof. Shivaram Venkataraman

Implemented a scheduler for large-scale distributed machine learning jobs which improves cluster efficiency by supporting flexible schedules. I also conducted independent study on distributed machine learning topics.

UNDERGRADUATE RESEARCH ASSISTANT | WISCONSIN INSTITUTE FOR DISCOVERY

Jan 2020 – Jan 2021 | Advisor: Dr. Steven Wangen & Prof. Michael Ferris

I am working on the Dairy Brain project, an analytics platform that aggregates large quantities of data that are used to evaluate and predict the performance of dairy cows.

EXPERIENCE

TUTOR IN COMPUTER SCIENCES AND MATH | UNDERGRADUATE LEARNING CENTER

Sep 2019 – May 2020 | Madison, WI

Offered drop-in and by-appointment tutoring sessions for core undergraduate computer sciences and math courses to individual or small groups of engineering students to improve academic performance.

SUBTITLE TRANSLATOR | COURSERA

May 2019 – May 2020 | Remote

Translated English subtitles to Simplified Chinese subtitles in multiple popular computer sciences courses.

STUDENT INSTRUCTOR | RDC@HSASJTU

Sep 2017 – May 2018 | Shanghai, China

Designed an introductory computer sciences course about programming basics.

Gave lectures on AP Computer Science A and Intro to Data Analysis to 10+ students.

Last updated: Dec 2020