

# Rui Pan

<http://ruipeterpan.github.io>

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## EDUCATION

### UW-MADISON

HONORS BS IN COMPUTER  
SCIENCES + APPLIED MATH

Madison, WI

Sep 2018 - Dec 2021 (Expected)

GPA: 3.96 / 4.00

## LINKS

Github:// [ruipeterpan](#)

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

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

## COURSEWORK

### GRADUATE

Advanced Operating Systems (I/P)

### UNDERGRADUATE

Algorithms

Artificial Intelligence

Computer Architecture

Computing Theory

Database Systems (I/P)

Data Analysis

Information Security (I/P)

Operating Systems

Theory of Computing

Calculus

Discrete Math

Numerical Linear Algebra

Probability

### COURSERA

Big Data Systems (I/P)

Deep Learning (I/P)

Software Engineering

Front-end Web Design

Back-end Web Applications

Cryptography

## SKILLS

Over 5000 lines:

Java • Python • C • C# • HTML/CSS

Over 1000 lines:

R • Javascript • Docker • PyTorch

Familiar:

PostgreSQL • Apache Spark

## ACADEMIC FOCUS

I am interested in everything system-ish. For now, I am focusing on building systems for distributed machine learning. In the future, I might also try some security (adversarial machine learning + computer vision) stuff.

## RESEARCH

### UNDERGRADUATE RESEARCH ASSISTANT | UW-MADISON

#### COMPUTER SCIENCES DEPARTMENT

May 2020 – Present | Advisor: Prof. Shivaram Venkataraman

I am helping Prof. Shivaram and his graduate student with the implementation of a scheduler for distributed machine learning jobs which improves large-scale cluster efficiency. I also conducted independent study on distributed systems/deep learning topics.

### UNDERGRADUATE RESEARCH ASSISTANT | WISCONSIN INSTITUTE FOR DISCOVERY

Jan 2020 – Present | Advisor: Dr. Steven Wangen

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.

Specifically, I am helping with the implementation of a data ingestion system that takes data files transferred from farms, homogenizes the data, and makes them available for analysis in a series of PostgreSQL marts.

## 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: Aug 2020