



# HAORAN WANG

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## EDUCATION

<b>Ph.D.   Computer Science</b> Illinois Institute of Technology	Aug 2022 – now Chicago, Illinois
<b>Master of Science   Computer and Information Science   GPA: 3.87/4.0</b> University of Oregon	June 2021 Eugene, Oregon
<b>Bachelor of Science   Computer Science   GPA: 3.30/4.0</b> Purdue University	May 2019 West Lafayette, Indiana

## RESEARCH EXPERIENCE

<b>Master Thesis</b> University of Oregon	January 2021 – June 2021 Eugene, OR
<ul style="list-style-type: none"><li>Thesis Title: Evaluating a Joint Neural Model with Global Features for Document-Level End-to-End Information Extraction.</li><li>Thesis Advisor: Thien Huu Nguyen</li></ul>	
<b>Undergraduate Research Assistant</b> Purdue University	August 2018 – May 2019 West Lafayette, IN
<ul style="list-style-type: none"><li>Built a database to store images along with their metadata captured by network cameras around the globe.</li><li>Evaluated different solutions to Big Data storage problem of unstructured data.</li></ul>	

## TEACHING

<b>Computer Science III, University of Oregon</b> Graduate Teaching Assistant	Fall 2020
<ul style="list-style-type: none"><li>Taught weekly lab sections.</li><li>Held regular, weekly office hours and answered questions on Piazza.</li></ul>	
<b>Computer Science II</b> Graduate Teaching Assistant	Spring 2020, Winter 2021, Spring 2021
<ul style="list-style-type: none"><li>Taught weekly lab sections.</li><li>Graded student projects for class size of approximately 120 students.</li></ul>	

## PROJECTS

<b>Parallel Game Tree Search: Gomoku</b> High Performance Computing	June 2021 University of Oregon
<ul style="list-style-type: none"><li>Developed parallel implementation of Minimax algorithm to perform game tree search on Gomoku (Five-in-a-row) game using OpenMP and CUDA.</li><li>Achieved up to 100x speedup by leveraging GPU compared to serial CPU implementation</li></ul>	
<b>Kaggle Competition: Jigsaw Multilingual Toxic Comment Classification</b> Natural Language Processing	June 2020 University of Oregon
<ul style="list-style-type: none"><li>Fine-tuned BERT, XLM-RoBERTa to classify toxic comments in multiple languages.</li><li>Achieved ROC-AUC score of 0.9459 on undisclosed test data. In comparison, the best entry in this competition achieved 0.9556. Earned top 15 percent finish out of 1,600 entrants.</li></ul>	
<b>Kaggle InClass Competition: Multi-Label Sentiment Analysis</b> Machine Learning	May 2018 Purdue University
<ul style="list-style-type: none"><li>Developed a classifier to do sentiment analysis. Component algorithms and techniques used include: cross-validation, bagging, boosting, Naive Bayes, Logistic Regression, and SVM.</li><li>Achieved 6th place out of 57 competing teams.</li></ul>	

## HONORS AND AWARDS

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**Provost Doctoral Fellowship**

Stevens Institute of Technology

2022-2023

Hoboken, NJ

**Benjamin Fellowship**

Montana State University

2021-2022

Bozeman, MT

**Semester Honor Student**

Purdue University

Spring 2019

West Lafayette, IN

## SKILLS

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**Coursework Highlights** Linear Algebra, Probability, Algorithm Analysis, Machine Learning, Introduction to Artificial Intelligence, Natural Language Processing, Data Science, Parallel Processing (CUDA programming).

**Programming:** Python, Java, C, C++, Javascript, C#, SQL, R, Julia

**Document Creation:** Microsoft Office Suite,  $\text{\LaTeX}$ , Markdown