

Wanyi Chen

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EDUCATION

2021-Present | Duke University (Expected graduation May 2026)

Ph.D. student in Computer Science, GPA 3.96

Research interests: Human-AI Interaction, Responsible AI

Courses: Artificial Intelligence, Theory and Algorithms for Machine Learning, Generative Models

2015-2019 | University of North Carolina at Chapel Hill

B.A. in Computer Science and Cultural Studies, minor in Entrepreneurship, GPA 3.91

Courses: Intro to Robotics, Human-Robot Interaction

RESEARCH EXPERIENCE

Aug 2021 - Present | Research Assistant, Duke Humans and Autonomy Lab

Advisor: Prof. Mary (Missy) Cummings

Researched how human preferences and biases influence unsupervised learning model selection

Trained models, designed an experiment, and conducted it with 33 participants

Jan 2019 - May 2019 | Research Assistant, UNC Enabling Technology Lab

Advisor: Prof. Gary Bishop

Designed and developed a swipe-based keyboard prototype for children without fine motor control

Conducted user study with two teenagers with Cerebral Palsy and developed design guidelines

INDUSTRY EXPERIENCE

Jun 2019 - Dec 2020 | Software Engineer, Audible Inc. | Cambridge, MA

Implemented new features and maintained the Android app using Java and Kotlin

Led a teamwide initiative to improve the Android app's accessibility: pinpointed existing issues and offered solutions, created an accessibility guideline, and held a tech talk to raise awareness

Jun 2018 - Aug 2018 | Forensic Technology Consulting Intern, PwC | San Francisco, CA

Aggregated and analyzed client data to understand the level of financial or regulatory exposure involved

Jan 2018 - May 2018 | Software Engineering Intern, Nstream (formerly Swim.ai) | San Jose, CA

Developed a Java program that collects, analyzes, and visualizes real-time operational data

Jan 2017 - May 2017 | Product Management Intern, Reese News Lab | Chapel Hill, NC

Ideated business plans, built prototypes, and conducted user tests for a local news product

TEACHING EXPERIENCE

Jan 2024 - Present | Teaching Assistant | Duke CS586 Human-Centered Security and Privacy

Assist in various teaching tasks such as grading

Jan 2023 - May 2023 | Teaching Assistant | Duke CS240 Race, Gender, Class, and Computing

Facilitated group discussions and gave a lecture on Human-Computer Interaction concepts

Aug 2016 - Dec 2016 | Teaching Assistant | UNC COMP110 Intro to Programming

Held office hours to explain challenging Java concepts to both CS and nontechnical majors

PUBLICATIONS

Chen, W., & Cummings, M. L. (2023). Subjectivity in Unsupervised Machine Learning Model Selection. *arXiv preprint arXiv:2309.00201*. [Accepted by AAAI spring symposium][[PDF](#)]

TECHNICAL SKILLS

Python, sklearn, Java, Kotlin, SQL, HTML, CSS, JavaScript, git

PRESENTATIONS

Aug 2023 | *Subjectivity in Unsupervised Machine Learning Model Selection* | Berkeley, CA

[Lightening talk](#) at the Connections Workshop: Algorithms, Fairness, and Equity hosted by the Simons Laufer Mathematical Sciences Institute

VOLUNTEER & EXTRACURRICULAR

Sept 2023 - Present | **Student athlete, Duke Women's Table Tennis Team**

Compete in regional and divisional games held by the National Collegiate Table Tennis Association
Duke women's table tennis team ranks #7 nationally

May 2023 - July 2023 | **President, Ethics Book Club**

Organized a book club to explore ethical theories with fellow STEM majors, leading weekly discussions

May 2017 - Aug 2018 | **IT Staff, Dream Crops**

Volunteered to provide IT support for the non-profit organization advancing rural public education

Aug 2017 - Dec 2017 | **Activity Planner, Girls Who Code**

Volunteered to plan activities to encourage local high school girls to learn computer science

HONORS, AWARDS & FELLOWSHIPS

2024 **Teaching on Purpose Fellowship**

Selective fellowship for doctoral students who are passionate about teaching
Engage in weekly seminars to develop a robust teaching philosophy and create compelling courses

2018 **AngelHack's Code For A Cause Impact Award**

Won the hackathon award for developing a smartwatch app that monitors senior users' heart rates and detects abnormalities, collaborated with three teammates

2017 **AnitaB.org Grace Hopper Student Scholar**

Selective scholarship for attending the largest women in technology conference

2017 **Carolina Research Scholar**

Recognition for students with significant involvement in undergraduate research

2016 **Computing Research Organization —Women Grace Hopper Research Scholar**

Selective scholarship for attending the largest women in technology conference