# Ana Sofía M. Uzsoy

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## EXPERIENCE

**GOOGLE** | Software Engineering Intern
May 2020 – July 2020 | Mountain View, CA (remote)

- Worked on TensorFlow and Kaggle teams.
- Created natural language processing (NLP) machine learning code examples using TensorFlow 2 for Kaggle in Python and R.
- Led launch of new NLP-focused Kaggle competition.

**NASA LANGLEY RESEARCH CENTER** | Intern
June 2019 – August 2019 | Hampton, VA

- Worked on SAGE III ISS (Stratospheric Aerosol & Gas Experiment III on the International Space Station).
- Identified cloud interference in spectroscopic atmospheric measurements using machine learning in Python (sklearn and PyTorch).
- Shadowed NASA employees in mission operations and software engineering.

**UNIVERSITY OF CHICAGO** | Undergraduate Researcher
June 2018 – present | Chicago, IL

- Analyzed data from *Kepler* and *Gaia* missions to calculate radius and mass distribution for ultra-short period exoplanets.
- First-author paper in preparation.

**NC STATE UNIVERSITY** | Undergraduate Researcher
August 2017 – present | Raleigh, NC

- Developed open-source computational tools to track the length of *S. pombe* (fission yeast) mitotic spindles over time using Python, Java and FIJI/ImageJ.
- First-author paper in preparation.

## AWARDS

2020 Winner of McCormick Symposium, the NCSU Physics Department Annual Undergraduate Research Symposium
2020 Computer Science Department Faculty Senior Scholar, awarded to a rising senior based on academic excellence, intellectual breadth, and depth of character
2019 Barry M. Goldwater Scholarship, a national scholarship awarded to promising undergraduates who plan to pursue a research career in engineering, mathematics, or the natural sciences
2018 Freshman Physics Outstanding Academic Achievement Award
2017 Park Scholarship, a full-ride merit scholarship to NC State awarded on the basis of outstanding accomplishments and potential in scholarship, leadership, character, and service
2017 Finalist, Intel International Science & Engineering Fair
2017 2nd Place, Beijing Youth Science Creation Competition

## PUBLICATIONS (IN PREPARATION)

Uzsoy AS, Price, M and Rogers L. (2020). The radius and mass distribution of ultra-short period planets. (in prep)

Uzsoy AS, Jennings, J, Kemper, A and Elting M. (2020). Automated tracking of S. pombe spindle elongation dynamics. (in prep)

## EDUCATION

**NC STATE UNIVERSITY**
B.S. Computer Science
B.S. Physics
Minors: Mathematics, Oboe performance
Expected May 2021 | Raleigh, NC
Dean's List (All Semesters)
Cum. GPA: 4.0 / 4.0
Expected to enter PhD program in Fall 2021

## SKILLS

**PROGRAMMING**
Python • C/C++ • Java • R
MATLAB • LaTeX• HTML/CSS
Assembly • AngularJS

**TECHNOLOGY**
Git/Github • UNIX • JUnit • Bash
FIJI/ImageJ • Maven • LabView

**MISCELLANEOUS**
Spanish (native speaker) • Soldering
Circuit wiring • Bacterial culture

## COURSEWORK

Data Structures
Discrete Mathematics
Operating Systems
Software Engineering
Ordinary/Partial Differential Equations
Probability & Statistics
Classical Mechanics
Electricity & Magnetism
Quantum Physics
Thermal Physics
Astrophysics

## EXTRACURRICULARS

Principal Oboe, NCSU Wind Ensemble
NCSU Woodwind Quintet
NCSU College of Sciences Student Ambassador
Service Raleigh Web Committee
NCSU Women in Computer Science
Competitive Bowling

## LINKS

GitHub;// **asmuzsoy**
LinkedIn:// **anasofiauzsoy**
Kaggle:// **anasofiauzsoy**