Ana Sofia 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 on the International Space Station)
- Used machine learning in Python (sklearn and PyTorch) to identify cloud interference in spectroscopic atmospheric measurements.
- Shadowed NASA employees in mission operations and software engineering.

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

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

NC STATE UNIVERISTY | Undergraduate Researcher
August 2017 – present | Raleigh, NC

- Develop 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

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
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
Competitive Bowling