

Alexandra Nisenoff

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(808)-464-2547

EDUCATION

University of Chicago

September 2017 - Present

Majors, Computer Science & Astrophysics

Chicago, IL

Expected Graduation Date, June 2021

Overall GPA, 3.70

Relevant Classes: (Graduate level) Intro to Computer Security, (Graduate level) Topics in Computer Security, Usable Privacy and Security, (Graduate level) Internet Censorship and Online Speech, Cryptography, and Foundations of Computer Networks

RESEARCH

University of Chicago Department of Computer Science, SUPERgroup

July 2019 - Present

Research Assistant for Prof. Blase Ur

Chicago, IL

- Developing code to automate the detection of website breakage due to tracking protection tools using Python, JavaScript, Puppeteer, and Selenium
- Parsed over 1TB of data breaches and performed password transformations for study on password reuse
- Creating a Qualtrics survey and app (React Native and Expo) to understand users' mobile device PIN modification strategies

University of Chicago Center for Data and Computing

August 2020 - Present

Research Assistant for Prof. Nick Feamster

Chicago, IL

- Designing and coordinating user study on DNS settings on mobile devices and in browsers

University of Chicago Department of Astronomy and Astrophysics

October 2019 - Present

Research Assistant for Prof. Vikram Dwarkadas

Chicago, IL

- Designing and building an online database for radio supernova data (PHP, MySQL, and JavaScript) and updated Supernova X-Ray Database
- Leading project to create audio representations of astronomical data to make astronomy more accessible to visually impaired researchers

University of Chicago Department of Geophysical Sciences

June 2018 - March 2019

Lab Technician for Prof. Elisabeth Moyer

Chicago, IL

- Optimized data reduction program in IDL, decreasing runtimes by 90% on typical output files
- Operated laser spectrometer to gather water isotopologue ratios in the atmosphere
- Implemented additional software capabilities for instrument into existing LabVIEW code

AWARDS AND GRANTS

- Dean's List, 2017-2020
- Enrico Fermi Scholar, *GPA in top 5% of major (over past 5 years) at end of 3rd year*, 2020
- Dean's Fund Grant, *\$1,500 UChicago grant for research expenses*, Fall 2020
- Jeff Metcalf Fellowship Grant, *\$3,750 UChicago grant for summer internships*, Summer 2020
- Diversity Grant to USENIX Enigma, January 2020

PRESENTATIONS & PUBLICATIONS

Poster Presentations

- **Midstates Undergraduate Research Symposium**, Poster Presentation
Study of UChicago Affiliates' Vulnerability to Password Guessing Attacks. Nov. 16, 2019
- **UCISTEM Undergraduate Research Symposium**, Poster Presentation
Study of UChicago Affiliates' Vulnerability to Password Guessing Attacks. Oct. 11, 2019

Non-Refereed Publications

- Alexandra Nisenoff, Vikram V. Dwarkadas, Mathias C. Ross. *Supernova X-Ray Database (SNaX) Updated to Ensure Long-term Stability*. 2020 Res. Notes AAS 4 195.

ACTIVITIES

University of Chicago Department of Computer Science January 2021 - Present
Grader for Introduction to Computer Security (100+ students) Chicago, IL

- Assisting with the development of weekly computer security focused assignments

Expanding Your Horizons Chicago August 2019 - Present
Organizing Committee Member Chicago, IL

- Organizing student recruitment for annual STEM symposium for middle school girls

UChicago Maroon Newspaper September 2017 - Present
Photo Section Editor and Staff Photographer Chicago, IL

- Run staff meetings, photo critiques, and handle various logistical tasks for the photo section
- Take photos at protests, guest lectures, concerts, sports events, and art exhibits
- 2019 ICPA Award for Excellence in IL College Newspapers: General News Photo 2nd place

College Core Tutor Program January 2020 - March 2020
Peer Tutor Chicago, IL

- Assisted 5-10 students per session with introductory computer science classes in Python, C, and Typed Racket

UChicago GlassEyeball October 2018 - March 2020
Student Organizer Chicago, IL

- Organized and led tutorials/workshops, for 10-20 club members, on photography techniques, darkroom usage, and photo editing

SKILLS

Programming:

- Proficient: Python, C, LabVIEW, and IDL
- Experienced: JavaScript, PHP, MySQL, HTML, CSS, R, SML, React Native, and Expo

Applications:

- Proficient: Adobe Lightroom, Qualtrics
- Experienced: LaTeX, Wireshark