

EDUCATION

- **University of Virginia (2019 - 2023)** 3.99 / 4.00
 - B.S. Computer Science (Expected May 2023)
 - B.A. Economics (Expected May 2023)
 - * Concentration in Public Policy
 - * Kenneth G. Elzinga Award recipient

EXPERIENCE

- **Policy Research Intern / Environmental Law Institute / Washington, DC** June 2021 - August 2021
 - Research was published and featured as the lead article in the Environmental Forum's March-April 2022 issue
 - Researched and wrote a comprehensive literature review on the positive and negative effects of the Internet of Things on the environment
 - Proposed policy and governance recommendations and presented findings to staff
 - Wrote multiple papers to be published in ELI publications and online
 - Constructed a bibliographic analysis of 22k research publications in the field of AI and the environment, reporting findings to a team of researchers at ELI, Yale, and Berkeley
- **Research Assistant / Wilson Center / Washington, DC** June 2021 - August 2021
 - Worked one-on-one with a scholar to support research on China's role in international standard setting
 - Composed multiple short essays on China-US relations and technological decoupling
 - Read and analyzed papers in both Chinese and English language to create a comparative analysis of international perspectives on decoupling and the COVID-19 pandemic
- **Research Assistant / University of Virginia / Charlottesville, VA** August 2020 - Present
 - Designed and developed secure and usable Voice Personal Assistant software in C++ and Python that improves privacy controls on current industry standards like Amazon Alexa
 - Explored security and privacy vulnerabilities in Voice Personal Assistants to publish in research
- **Data Science Intern / JHU Applied Physics Laboratory / Laurel, MD** June 2020 - August 2020
 - Developed MySQL database for unified access to COVID-19 data from multiple sources to aid the JHU APL's COVID-19 modeling effort
 - Proposed and led a COVID-19 sentiment analysis project to examine public opinion shifts in specific areas like mask-wearing and shutdowns and how it may affect or be affected by state-level public policy
 - Presented results to a team of engineers across the APL network and work was scouted for further implementation with the APL's ESSENCE health surveillance tool

EXTRACURRICULARS

- **Competitor / UVA Moot Court** Sept 2019 - Present
 - Wrote and argued complex Constitutional law cases to panels of judges
 - Only team from UVA to break into the round of 16 at Liberty University 2019
- **Guest Writer / Virginia Review of Politics** May 2021 - Present
 - Wrote and submitted guest articles on modern political theory published online

PROJECTS

- **Toxical**
 - Trained a neural network to intelligently moderate online conversations on platforms like Twitter and Discord
 - Developed a custom sentiment analysis algorithm that detects toxic comments with 80% accuracy
 - Algorithm was used at JHU APL for COVID-19 sentiment analysis on Twitter

SKILLS

- **Research and Analysis:** Wrote research papers on complex topics including IoT, AI, and China-US relations that were used and published by the Environmental Law Institute and the Wilson Center
- **Project Management:** Led project design by a team of interns modeling the COVID-19 pandemic in June 2020