JESSICA MAY

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Summary

Passionate Honors student attending Virginia Tech on a merit-based full-ride scholarship studying computer science with a minor in math.

Education

BS in Computer Science + Math Minor - Virginia Tech, Blacksburg, Virginia **GPA**: 4.0/4.0 **May 2026**

HS Diploma - Thomas Jefferson High School for Science and Technology **June 2023**

Work + Research Experiences + Projects

Energy Delivery Intern at American Electric Power (June 2024 - August 2024) – Modeled millions of survey points utilizing PLS-CADD and LiDAR data to optimize line modeling and clearance analysis for transmission and distribution lines. Conducted QA/QC reports on models and performed finite element analysis of systems to determine project cost and constructibility.

HP Corporate Venture Capital & Business Analytics Externship (Feb 2024 - April 2024) – Sourced startup metrics and analyzed industry data & business models to construct market maps for various tech startup sectors.

Research (Nov 2023 - Present) – Working under Professor Deng to analyze factors affecting the Nobel laureates per capita of a country. Utilized linear regression to analyze time-dependent relations between factors. Created bootstrapped confidence intervals to provide more accurate estimation of the correlation strength between factors. Working towards first author publication.

Research (Sept 2023 - May 2024) – Utilized Ansys STK to model the attachment physics and logistics of a deployable deorbiting drag sail for end-of-life satellites. Research was supported by the VT HUME Center.

Research (Aug 2022 - June 2023) – Studied the effect of pharmaceutical pollution on the bacterial biodiversity of biofilms in a Baltimore stream. Analyzed field samples using principal coordinates analysis, wrote a research paper, and presented at a symposium.

Project – Created logistic regression models analyzing mortality rates of the Trans-Atlantic Slave Trade. Coauthored a research paper.

Awards + Skills

Stamps Scholar - Full-ride merit-based national scholarship including $7,500 in enrichment funds. Scholarship awarded based upon achievements in academics, leadership, and community service. One of 10 recipients selected in VT's class of 2027.

Mark Kusiak Memorial Scholarship - $6, 375 scholarship awarded in recognition of my outstanding academic achievement in Virginia Tech's computer science program and my potential for leadership.

Gebreyes Service Scholarship - $2,000 scholarship awarded in recognition of my outstanding service principles to the university and the community.

Full Professional Proficiency in **Mandarin Chinese**

Proficient Languages: R, Python, Java, JavaScript, HTML/CSS

Frameworks: React **Libraries:** dplyr, ggplot2 **Tools:** MATLAB, LaTeX, Git

Leadership + Volunteering Positions

VT Student Engineers' Council Professional Development Chair - Plan professional development events and help organize VT's Engineering Expo, a student-run career fair with 300+ attending companies and 6,000+ student attendees per year.

HackViolet Logistics Chair - Help facilitate a 24-hour female empowerment hackathon with 500+ participants.

Computer Science Student Ambassador + Dean's Team Ambassador - Lead info sessions and act as a student representative

Guanlan Scholarship Foundation Data Analysis Team (Dec 2023 - Present) - Used Excel to clean and analyze awardee data to determine demographic information. Created graphics and charts to visually represent data. Contributor to an incoming publication.

Relevant College Coursework

STEM: Software Design & Data Structures, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Differential Equations, Physics: Electricity & Magnetism