

Jessica Kuleshov

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EDUCATION

Columbia University - School of Engineering and Applied Science

Expected graduation: May 2022

B.S. in Computer Science (Intelligent Systems), potential minor in Linguistics

Relevant coursework: NLP, Semantic Representations for NLP, Artificial Intelligence, Data Structures and Algorithms, Intro. Databases, Language Documentation-Field Methods, Advanced Programming. Cumulative GPA 3.46 - Mar. 2020

Stanford University - Summer Session

June 2019 - August 2019

Classes taken: Finite Element Analysis, Programming Methodologies in Python, Accelerated First-Year Japanese. Cumulative GPA 3.54

Holmdel High School, Holmdel, NJ - GPA 4.71 - *Valedictorian*

June 2018

Columbia University Science Honors Program

September 2016 - May 2018

Classes taken: Particle Physics, Fabrication of Classical and Quantum Computing Devices, Neuroscience, Graph Theory

NJ Governor's School of Engineering and Technology (Rutgers University, New Brunswick, NJ)

Summer 2017

Classes taken: Modern Physics, Intro. to Digital Electronics for Robotics, Robotics, Intro. to Materials Science

SKILLS:

- Working knowledge of Python, Java, Flask, PostgreSQL, C, Go, JavaScript/HTML, NLTK, speech recognition
 - Experience with Docker, Jupyter Notebook, Git, Linux, Tensorflow
 - 3D Printing, SolidWorks, Autodesk Inventor, ANSYS/FEA/CFD, ROS
 - Fluent in English and Russian, proficient in French, studying Dutch and Swedish
 - Adaptability - can learn new skills quickly and apply them as needed
 - Confident and articulate oral and written communication skills - co-wrote research papers/made posters, presented
 - Excellent time management skills - can handle large workloads under pressure and devote time needed to meet deadlines
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RELATED EXPERIENCE

2021 Brooke Owens Fellow, Planet Labs

December 2020-present

- Selected as part of a class of 40 fellows out of 800 applicants for a paid internship and mentorship in the commercial aerospace sector; internship will be as part of the Planet Labs Mission Control team in Summer 2021

Research and Development Intern, Quantum Numerics AG

June 2020 - present

- Researched, optimized, and implemented ODEs, simulation of n-body problems and planetary and satellite orbits
- Created a front-end interface with the n-body GPU code using Flask, and data visualization of debris with DeckGL

Project Mentor, New Jersey Governor's School of Engineering and Technology

June 2020 - July 2020

- Mentored incoming high school seniors for a project building a voice-driven learning platform

Co-President, Columbia Space Initiative

February 2020 - February 2021

- Managed the day-to-day activities of the Columbia Space Initiative, including organizing budget distribution and planning meetings and events

Treasurer, Airframe and Integration, Columbia Space Initiative Rocketry Team (IREC)

September 2018 - present

- Fabrication of the carbon fiber nose cone from scratch, from FEA simulations and CAD to the layup process
- Construction and programming of the filament winder

Teaching Assistant, Columbia University

January 2021 - present

- Assisting with teaching and grading assignments for Introduction to Linguistics with Prof. John McWhorter
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HONORS AND AWARDS

National Merit Scholarship Winner - Grade 12, Perfect score of 1520

AP Scholar with Honors - Grade 12

National Honor Society - Grades 11, 12

EXTRACURRICULAR ACTIVITIES

Co-President, Co-Founder, **Columbia GLOT**

2019-present

- A club for linguists and language lovers and learners to practice languages and learn about other languages
- Hosts outings, speakers, and presentations on various languages and cultures for the Columbia community

Bass Clarinet, **Columbia University POPS Orchestra**

2018-present

INTERESTS

Space, Dancing, Robotics, Languages, Poi, Cooking, and Playing Music