Keltin Grimes

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EDUCATION

Carnegie Mellon University, graduating May 2023
Intended **Bachelor of Science in Statistics and Machine Learning**
4.0 GPA, Fall 2019 Dietrich College **Dean's List with High Honors**
Relevant Coursework: Methods for Statistics & Data Science, Concepts of Mathematics, Fundamentals of Programming and Computer Science
Skills: Proficient in Python, C++, HTML, PHP, CSS, SQL, and R

AWARDS

36 ACT Composite, February 2018
2019 National AP Scholar
2019 American Statistical Association Leadership Challenge winner
2019 Raleigh Fine Arts Short Story Competition Honorable Mention for *Iluula*
T-1st in Intermediate-5 division qualifying for the 2019 American Computer Science League All-Star Contest

RESEARCH AND WORK EXPERIENCE

Research Intern – Department of Statistics, NC State University, February 2017 – April 2018

- Completed an individual research project to predict features of a home based on a fungal swab of house, built a prediction model in R
- Presented a poster on my work at the 2017 SNC Undergraduate Research and Creativity Symposium
- Assisted a project to improve NFL play-calling using the video game Madden, helped to build a data-collection framework and prediction model

Research Assistant - Department of Energy Science and Engineering, Daegu-Gyeongbuk Institute of Science and Technology, June 26-July 27 2018

- Prepped sample materials for photo-conversion of CO_2 to methane or ethane for fuel, analyzed results of experiments and properties of materials with R, lived and worked at the South Korean campus

Software Developer – Department of MSE, NC State University, April – September 2018

- Developed a SQL database and web interface for asset management, continues to save the department time and resources

EXTRACURRICULAR ACTIVITIES

- **CMU Data Science Club**, member, December 2019 **Data Challenge Winner**
- **Undergraduate Entrepreneurship Association**, member
- **CMU Running Club**, member

PUBLICATIONS

Sorcar, Saurav, et al. "CO2, Water, and Sunlight to Hydrocarbon Fuels: a Sustained Sunlight to Fuel (Joule-to-Joule) Photoconversion Efficiency of 1%." *Energy & Environmental Science*, 21 May 2019.