

# Keltin Grimes

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kgrimes@andrew.cmu.edu | 984-242-6692 | Portfolio and More at keltin13.github.io

## 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, Imperative Computation, Functional Programming

**Skills:** Proficient in Python, C, C++, R, SML, HTML, PHP, CSS, and SQL

## 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-1<sup>st</sup> 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<sub>2</sub> 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. "CO<sub>2</sub>, Water, and Sunlight to Hydrocarbon Fuels: a Sustained Sunlight to Fuel (Joule-to-Joule) Photoconversion Efficiency of 1%." *Energy & Environmental Science*, 21 May 2019.