

DYLAN CROMER

Motivated data scientist with a passion for solving challenging problems

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EXPERIENCE

Frontier Engineering, remote – Database Consultant (Contract)

JULY 2022 – PRESENT

- Created a searchable database of 20+ years of engineering project files using Recoll

Self-Employed – Writer

MAY 2021 – July 2022

- Researched and began drafting a book about structural problems in academia.

Cornell University, Ithaca NY – Graduate Research Assistant (paid)

AUGUST 2017 – MAY 2021

- Constructed and tested model of noisy galaxy cluster masses to account for bias in older models using machine-learned interpolation for speed.
- Created fully-tested (unit and integration) Python library
 - Software library currently in use by multiple cosmology collaborations

UCLA Particle Beam Physics Laboratory, Los Angeles, CA – REU Summer Intern (paid)

JUNE 2016 – AUGUST 2017

- Designed electrostatic lenses for an electron spectrometer to be used in a novel experiment.

UNC Asheville Math Assistance Center, Asheville, NC – Math Tutor

September 2016 – MAY 2017

- Tutored intro to advanced-level math courses

UNC Asheville, Asheville, NC – Physics Tutor

JULY 2014 – MAY 2017

- Tutored intro to advanced-level physics courses

UNC Asheville, Asheville, NC – Undergraduate Research Intern (paid)

MAY 2014 – AUGUST 2014

- Developed stellar flare model of unknown astrophysical phenomena (fast radio bursts or FRBs)

SKILLS

- Python
- SciPy, NumPy, ScikitLearn
- Jupyter
- SQL
- Mathematica
- Test-Driven Development
- Git
- Unix (e.g. Linux, Vim, Bash, etc.)
- Github, Github Actions
- DigitalOcean
- Mathematics
- Statistics
- Machine learning
- Presenting
- Self-directed learning

AWARDS

- Cornell Graduate Fellowship
- UNC-Asheville Manly Wright Valedictory Award
- NC Space Grant Research Scholarship
- UNC-Asheville Parsons Scholarship
- UNC-Asheville Chancellor's List

EDUCATION

Cornell University, Ithaca, NY – Master of Science

2017–2021. Astronomy.

UNC Asheville, Asheville, NC – Bachelor of Science

2013–2017. Physics and Mathematics.

Honors: Manly Wright Valedictory Scholar, summa cum laude, distinction as research scholar.