Lindsey Gordon

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EDUCATION

WELLESLEY COLLEGE | BA in Astrophysics
In Progress, Expected Graduation May 2021 | Wellesley, MA
Cum. GPA: 3.58 / 4.0 · 2020 Albright Institute Fellow

RESEARCH EXPERIENCE

A COMPACT MULTI-BEAM PARTICLE ACCELERATOR | SULI Intern
August 2019 - Present | Lawrence Berkeley National Laboratory | ATAP Division
- A new design of accelerator that greatly reduces the size and cost by using stacks of laser cut PCB wafers to accelerate and focus 112 ion beams.
- Tested the new accelerator components and performed initial beam tests and aligments.
- Ran Python-based simulations of the accelerator on the Lawrencium supercomputing cluster.

THE SEARCH FOR DUAL QSOS | Student Researcher
June 2019 – August 2019 | KNAC REU at Middlebury College
- Mined the Hubble archive for all images of known quasars to analyze for candidate dual quasar systems.
- Performed an available volume analysis of the sample to quantify the space searched.
- Summary paper and presentation given at the 2019 KNAC Symposium.

FIBER-OPTIC-FED SPECTROMETER | Optics Design Lead + Collaborator
February 2019 – May 2019 | Wellesley College
- Designed and built a spectrometer for Whitin Observatory's new PlaneWave CDK7000.
- Led the internal optical design, including choosing all purchased elements and 3D printing custom mounts.

ASTRONOMY FIELD CAMP | Student Researcher
January 2019 | Lowell Observatory, Flagstaff, AZ
- Wrote Python code to detect and analyze stellar flares in K2 mission data.
- Tested Python packages written for other areas of astronomy for their usefulness across disciplines.

TESS FOLLOW-UP OBSERVATIONS | Student Project
Fall 2018 | Wellesley College
- Made follow-up observations on TESS targets using the iTel network to produce light curves of possible exoplanet transits.

WORK EXPERIENCE

WHITIN OBSERVATORY | Night Assistant
December 2018 – Present | Wellesley College
- TA for the introductory astronomy classes; larger organizational role in Whitin's public nights.
- Responsibilities include giving constellation quizzes, leading dark sky/moon tours on the historic telescopes, and assisting with labs including 10" Meades use.

WELLESLEY LIBRARY AND TECHNOLOGY SERVICES | Book Conservation Assistant
September 2017 – present | Wellesley College
- Apply preservation treatments including protective enclosures and structural repairs to the library collections.

ROCKY HILL SUMMERSCAPE CAMP | Camp Counselor, Archery Director
May 2017 – August 2018 | Rocky Hill, CT
- Supervised campers; ran and maintained the archery range at camp.

LANGUAGES

PROGRAMMING
Over 5000 lines:
Python
Over 1000 lines:
C++ (Arduino)
Familiar:
MATLAB • HTML/CSS • Java
CAD:
SolidWorks

SPOKEN & WRITTEN
Native fluency:
English
Reading fluency:
French

OTHER SKILLS

FABRICATION
3D printing
Laser cutting
Soldering
Machine Shop Tools

ASTRONOMY
CCD imaging + telescope driving
Data processing software
AstroImageJ • ds9 • TOPCAT
Optical Alignment

EXTRACURRICULARS AND VOLUNTEERING

MITTELMAN OBSERVATORY | Volunteer
June - August 2019 | Middlebury, VT
- Assisted in running public and private astronomy outreach events by operating telescopes and giving constellation tours.

A.S.T.R.O. CLUB | Treasurer
September 2018-May 2019 | Wellesley College
- Kept track of club finances and applied for funding.
- Organized and ran astronomy outreach events including an interdisciplinary lecture on Shakespeare and Astronomy.

WHITIN OBSERVATORY | Volunteer
September 2017-December 2018 | Wellesley, MA
- Assisted in running public and private astronomy outreach events.
- Gave observatory tours, operated the historic telescopes, gave presentations, and led constellation observing.