SIDNEY KATZ

858-776-8860 | SIDKATZ4@GMAIL.COM
LINKED IN | GITHUB

Mathematics and physics graduate qualified for entry-level technical position. Four years work experience in data analytics and presentation management for university applied physics laboratory. Analytic thinker with problem-solving and programming experience. GPA in math major 3.5.

EDUCATION

Colorado State University, Ft. Collins, CO May 2018
Bachelor of Science, Mathematics | Minor in Physics
(four classes remain for double major)

- Recipient of Webber Scholarship for Physics, 2015
- Dean's Scholarship, 2013-2016

UC San Diego Extension, San Diego, CA September 2018 – April 2019
Data Science Certification (Data Science Certificate)

MEMBERSHIP ORGANIZATIONS

Colorado State University, Ft. Collins, CO

- Triangle Fraternity (member, 2014-2017)
- Society of Physics Students (member, 2013-2018, treasurer, 2015-2017)

ADDITIONAL SKILLS and QUALIFICATIONS

- Advanced skills in Python, Igor, and Origin
- Proficiency in ETL, VBA, MYSQL, MatPlotlib, Pandas, Java, JavaScript, HTML, BeautifulSoup, Flask, and Microsoft Office
- Familiar with Linux and Tableau
- Experienced building web pages and website scraping
- Comfortable explaining complex and technical information to lay audiences
- Proficient in using Python to write APIs to extract data, perform data analysis on weather patterns and gather information on rocket launches

PUBLICATIONS and PRESENTATIONS

- Four Corners poster presentation on *FMR of FePt (Iron Platinum) and Soft Metallic Alloyed at High Temperature*, October 2017
- Presented findings at Celebrate Undergraduate Research and Creativity Symposium. Received Highest Honors Award
- Collaborated on team paper published in Journal of Applied Physics: "*Quantification of Intergranular Exchange Coupling in CoPtCr-based Perpendicular Recording Media via Ferromagnetic Resonance Measurements*," November 2017
- Collaborated on team paper published in Journal of Applied Physics: "*Near-T_c Ferromagnetic Resonance and Damping in FePt-Based Heat Assisted Magnetic Recording Media*," November 2017

RELEVANT WORK EXPERIENCE

Genesis Healthcare, San Diego, CA January 2019 - present

Data Science Intern

- Conduct data analysis and use a proprietary tool to debug code and automate the screening process for prostate cancer.
- Conduct quantitative data analysis on electronic health records and provide quarterly reports using Microsoft SQL, Python and R software.

Colorado State University, Physics Department January 2014-May 2018

Magnetic Lab

Undergraduate Research Assistant

- Researched thermodynamic effects on the magnetic properties of thin films used in hardware disks.
- Performed Ferromagnetic resonance testing on thin films
- Used Matplotlib and Origin software to analyze how power absorption changes with frequency and temperature in thin films.
- Reviewed power absorption process of microwaves to measure derivatives of power absorption.
- Built cavities, stands, and slits for high-temperature FMR system.

Colorado State University, Little Shop of Physics August 2013-April 2014

Little Shop intern

- Developed hands-on physics experiments for all ages
- Prepared educational presentations for on-and off-campus community events

URLS

LinkedIn: https://www.linkedin.com/in/Sidney-Katz/
Github: https://github.com/anyx8860/startbook