

ALEX OSTAPENKO

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Education

The University of British Columbia, Vancouver, BC

September 2021 – August 2023

Master of Science in Physics and Astronomy

Technical Skills

Programming Languages: Python, R, SQL, HTML/CSS

Software and Technologies: Version Control (Git), Remote Computing (ssh), Bash Scripting, Looker Studio, Microsoft Office, Jupiter Notebook, Latex, Mathematica.

OS: macOS, Linux, Windows

Experience

D2A Analytics

June 2023 – Present

Volunteering Data Scientist

Toronto, ON

- **Analyzed data** using **Python**
- Provided business consulting services for non-profit organizations.

The University of British Columbia

September 2021 – August 2023

Research Assistant

Vancouver, BC

- Performed **image analysis**, **modeling**, **statistical analysis** of data using **Python** and **R**.
- Extracted data from databases using **SQL**.
- **Developed a python package** for **statistical analysis** and **data visualization**.

The University of British Columbia

September 2022 – May 2023

Science-Policy Research Assistant

Vancouver, BC

- Examined pollution from satellites and debris re-entry on Earth's atmosphere using **Python** tools.
- Prepare reports on satellites' pollution.

The University of British Columbia

September 2021 – May 2022

Teacher Assistant

Vancouver, BC

- Created a **Jupyter Notebook Tutorial** for undergraduate students.
- Provided office hours for ~70 undergraduate students.
- Graded homework and exams.

Astronomical Observatory of the Jagiellonian University

July 2019, July 2020

Intern

Kraków, Poland

- Performed **time series**, **statistical** and **image analysis**.

Projects

Survey Analysis Automation | *Python, Looker Studio*

June 2023 – August Present

- Developed software for Google Forms analysis automation.

A multi-wavelength study of ICM in the galaxy clusters | *Python, R, Microsoft Office*

Sep 2021 – Aug 2023

- Analyze telescope images (3D images) to study the properties of gas between galaxies.
- Created the telescope observations project.

Ainfer | *Cohere LLM* [Try](#)

February – March 2023

- Developed a tool based on Cohere LLM to extract the information from any text file in over 100 languages.

Satellite Debris Tracking | *Python* [Info](#)

September – October 2022

- Developed a predictive tool for satellite debris tracking.

Publication

Searching for signatures of chaos in gamma-ray light curves of selected Fermi-LAT blazars | [Publication](#) **January 2021**

- Published an analysis of astronomical objects using theory of chaos instruments.

Selected Certifications

Introduction to Machine Learning [Link](#)

Career Essentials in Data Analysis by Microsoft and LinkedIn [Link](#)

Introduction to Business Analytics [Link](#)