

OLEKSANDRA OSTAPENKO

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Experience

University of Toronto

October 2023 – Present

Research Assistant

Toronto, ON

- **Developed** machine learning pipeline in **Python** for new materials discovery.

D2A Analytics

June 2023 – Present

Volunteering Data Scientist

Toronto, ON

- **Developed** and **deployed** sentiment analysis app using **Python**
- Provided technical consulting services for non-profit organizations.

The University of British Columbia

September 2021 – August 2023

Research Assistant

Vancouver, BC

- Performed **image analysis**, **3D modeling**, **statistical analysis** of data using **Python** and **R**.
- **Developed** a python package for **statistical analysis** and **data visualization**.
- **Created** a new observational **project** for ALMA (7th biggest telescope in the world) which was **selected** among >1700 other projects.

Science-Policy Research Assistant

- Examined metals concentration increase from **satellites** and debris re-entry in Earth's atmosphere using **Python** tools.

Teacher Assistant

- Created a **Jupyter Notebook Tutorial** for undergraduate students.

Astronomical Observatory of the Jagiellonian University

July 2019, July 2020

Intern

Kraków, Poland

- Performed **time series**, **statistical** and **image analysis** which resulted in scientific **Publication**

Education

The University of British Columbia, Vancouver, BC

September 2021 – August 2023

Master of Science in Physics and Astronomy

Taras Shevchenko National University of Kyiv, Ukraine

September 2017 – June 2021

Bachelor of Science in Physics and Astronomy

Technical Skills

Programming Languages: Python, R, MATLAB, SQL, HTML/CSS, Latex.

Software and Technologies: Version Control (Git), Remote Computing (ssh), HPC, Bash Scripting, Jira, Streamlit, Mathematica, Microsoft Office, Jupiter Notebook.

OS: macOS, Linux, Windows

Side Projects

Survey Analysis Automation | *Python, Streamlit*

June 2023 – Present

- Developed software for Google and Microsoft Forms analysis automation.

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.

Selected Certifications

[Introduction to Machine Learning](#), [Career Essentials in Data Analysis by Microsoft and LinkedIn](#), [Introduction to Business Analytics](#)

Languages

English: Fluent, **Ukrainian:** Native, **French, German, Italian:** Beginner, **Russian:** Fluent.