

Alex Ostapenko

Work Experience



Research Assistant/Technician
University of Toronto
October 2023- Presents

- Developed a **machine learning** pipeline using **Python** (PyTorch, deep learning, regression, clustering) for new materials discovery.



Science-Policy Research Assistant
University of British Columbia
September 2022 - May 2023

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

Research Assistant
University of British Columbia
September 2021 - August 2023

- Image analysis, 3D modeling, and statistical analysis of data using **Python** (numpy, scipy, astropy, etc.) and **R**
- Simulations** using CASA software
- Developed a Python package** for statistical analysis and data visualization
- Created a new observational project** for the ALMA **interferometer** (7th biggest **telescope** in the world) which was **selected among >1700** other projects



Intern
Jagiellonian University
September 2021 - August 2023

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

Education History



Master of Science in Physics and Astronomy
The University of British Columbia
Year of Graduation: 2023



Bachelor of Science in Physics and Astronomy
Taras Shevchenko National University of Kyiv
Year of Graduation: 2021

Contact Info

Click [here](#) for my portfolio

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Relevant Skills

- Python, R, MATLAB, SQL
- Version Control (Git), Remote Computing (ssh), HPC, Bash Scripting, macOS, Linux, Windows
- QC/Processing tools
- Jira, Trello
- Streamlit, Mathematica, Microsoft Office, Jupiter Notebook, HTML/CSS, Latex

Side Work

Survey Analysis Automation ([link](#))
Developed software for Google and Microsoft Forms analysis automation.

Ainfer ([link](#))
Developed a tool based on Cohere LLM to extract the information from any text file in over 100 languages

OSI Junior Fellow ([link](#))
Examined light and atmospheric pollution from satellites