Alex Ostapenko

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Work Experience

- *Research Scientist | University of Toronto | October 2023- Present*
  Developed a machine learning pipeline using **Python** (PyTorch, deep learning, regression, clustering) for new materials discovery.

- *Technical Consultant | D2A Analytics | June 2023 - Present*
  Provided **technical consultations for clients**. Developed and deployed sentiment analysis application using **Python** which **improved clients' data tools** performance by **>100 times**.

- *Research Assistant | University of British Columbia | September 2021 - August 2023*
  Performed image **analysis**, 3D modeling, and statistical **analysis** of **data** using **Python** (**numpy**, **pandas**, scipy, astropy, etc.) and R. Worked with **databases** and **APIs**. Developed a **Python** package for **statistical analysis and data visualization**. Worked in **international collaboration** with other research groups. Created a new observational project for ALMA interferometer (7th biggest telescope in the world) which was selected among >1700 other projects. Performed simulations using astronomical software. **Presented** projects during conferences and **invited talks**.

- *Science-Policy Research Assistant | University of British Columbia | September 2022 - May 2023*
  Examined metal concentration from satellite re-entries in Earth's atmosphere using **Python** and created science-policy documents on the usage of radio spectrum. This work was also a part of the Outer Space Institute (OSI) Junior Fellowship and **international collaboration**.

- *Intern | Jagiellonian University | July 2019, July 2020*
  Performed time series, and statistical **analysis** which resulted in scientific publication and conference **presentations**.

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

Relevant Skills

Python, R, **SQL**, **CSV**, Version Control (Git), Remote Computing (ssh), HPC, Bash Scripting, macOS, Linux, Windows, QC/Processing tools, Jira, Trello

Side Projects

Survey Analysis Automation: Developed software for Google and Microsoft Forms analysis automation. *Ainfer:* Developed a tool based on Cohere LLM to extract the information from any text file in over 100 languages.