ALEX OSTAPENKO

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WORK EXPERIENCE

Data Scientist
D2A Analytics

June 2023 – Present Toronto, ON

Analyzed data using **Python** and provided business consulting services for non-profit organizations. Main instruments: **Google Looker, Python, SQL**.

Research Assistant
the University of British Columbia

September 2021 – Present Vancouver, BC

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

Science-Policy Research Assistant
the University of British Columbia

September 2022 – May 2023 Vancouver, BC

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

Teacher Assistant of Astrobiology class
the University of British Columbia

Sept 2021 – May 2022 Vancouver, BC

- Created a **Jupiter Notebook** Tutorial for undergraduate students. Provided office hours for more than 70 undergraduate students, and graded homework and exams.

Intern
Astronomical Observatory of the Jagiellonian University

July 2019, July 2020 Kraków, Poland

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

EDUCATION

Master of Science in Astronomy
the University of British Columbia

Sept 2021– Present Vancovuer, BC

B.Sc. in Physics and Astronomy
Taras Shevchenko National University of Kyiv

2017 – 2021 Kyiv, Ukraine

LANGUAGES

English | Ukrainian | French | German | Russian

SKILLS AND TOOLS

- **Python** (i.e. numpy, scipy, pandas, matplotlib; TensorFlow, PyTorch)
- **R** (i.e. ggplot2, FITSio, dplyr ...)
- **SQL**
- **Remote Computing (ssh), Terminal command line, Bash Scripting, Version Control (Git)**
- **Google Looker**, **Tableau**, **Microsoft Excel, PowerBI**
- **Jupiter Notebook**
- **MacOS**, **LinuxOS**, **Windows**

data modeling | statistical analysis | data vizualization | research | data analysis | deep learning

- **Problem-solving** In course of my studies successfully solved multiple diverse scientific, technical, and management problems.
- **Project managment** Successfully combined several research projects, teaching, and management of administrative tasks.
- **Public Presentation** Presented my research at multiple international scientific conferences to an audience of more than 50 people.

PUBLIC TALKS

- Oral presentation at *CASCA 2023 AGM* with work 'Studying the Intracluster Medium properties of MS0451 with ALMA'.
- Publication: **O. Ostapenko**, M. Tarnopolski, N. Żywucka, J. Pascual-Granado (2020) Searching for signatures of chaos in gamma-ray light curves of selected Fermi-LAT blazars. Monthly Notices of the Royal Astronomical Society.
- 3-Minute Thesis Presentation: Life in the Universe? Galaxy Cluster Gas Holds the Answers.
- Oral presentations at *Galaxy seminar Institut d'Astrophysique de Paris 2023*.
- Oral presentations at *YMCA Institut d'Astrophysique de Paris*: A multi-wavelength study of the intracluster medium in the MS0451 galaxy cluster using ALMA and Chandra observations.
- Poster presentation at *CASCA 2021* with work 'Searching for Signatures of Chaos in Gamma-ray Light Curves of Selected Fermi/LAT Blazars'.
- 2 Oral presentations at 27^{th} *Young Scientists' Conference on Astronomy and Space Physics:* 'Investigation of the detectability of bright GRBs in TeV range with future neutrino observatories' and 'Signatures of Chaos in Gamma-ray Light Curves of Selected Fermi/LAT Blazars'.