Aleksi
YLI-LAURILA

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- github.com/ajylla

Hey, my name is Aleksi. I'm a soon-to-graduate physicist. Besides physics, my main areas of knowledge include mathematics, programming and data analysis. I'm calm and analytical. Currently I am looking for a place of work where I can apply what I already know, and of course learn something new.

EDUCATION

MSc, Space Physics (ongoing)
Solar energetic electron event characteristics as inferred from spacecraft and ground-based observations
University of Turku, Space Research Laboratory
2023 – 11/2024

BSc, Physics
Auringon radiopurkaukset ja niiden yhteys Auringon suurienergiaisten hiukkasten purkauksiin
University of Turku
2017 – 2023

PROJECTS

Solar Particle Onset Tool (SPOT)
Python program to determine solar particle onsets from spacecraft data. Developed for the Space Research Laboratory, later merged into SEPpy
https://github.com/ajylla/SPOT

epd_plot
Python script for working with data from Solar Orbiters EPT, HET and STEP instruments
https://github.com/ajylla/epd_plot

PUBLICATIONS

The solar cycle 25 multi-spacecraft solar energetic particle event catalog of the SERPENTINE project (second author)
Nina Dresing *et. al.*
Astronomy & Astrophysics
DOI: 10.48550/arXiv.2403.00658

Solar Energetic Particle Time Series Analysis with Python (co-author)
Christian Palmroos *et. al.*
Frontiers in Astronomy and Space Sciences
DOI: 10.3389/fspas.2022.1073578

WORK EXPERIENCE

Research assistant
Working with data from the Solar Orbiter spacecraft
- Space Research Laboratory, University of Turku
- 01.09.2023 – 30.11.2023

Research assistant
Software development and data analysis for SERPENTINE project
- Space Research Laboratory, University of Turku
- 01.05.2023 – 30.06.2023

Building maintenance worker
Summer job in building and residence maintenance
- Kiinteistöpalvelu Nissinen, Hervanta
- Summers 2014 – 2018

SKILLS

Computer
- ●●● Python
- ●●○ Office tools
- ●○○ Java
- ●●○ Linux
- ●●○ SQL
- ●○○ C

Other tools
- COMSOL Multiphysics
- MATLAB
- Vim (better than emacs)
- Critical thinking

Languages
- ●●● Finnish
- ●●● English
- ●○○ Swedish

PERSONAL INTERESTS

- Computers
- Outdoors
- Science
- Reading
- Almost everything, really

REFEREES

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