
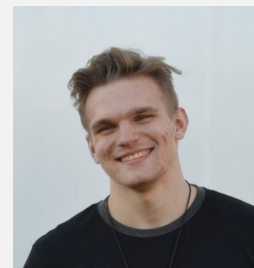


Kristijonas Mikas Silius

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in [Kristijonas Silius](#)  [Kristijonas Silius](#)



EDUCATION

Master of Theoretical Physics and Astrophysics

at Vilnius University

Focus on particle physics and programming

01.2023 - current

- Average: 9.6/10
- Thesis: Study of ttH kinematics with CMS experiment at the LHC

Bachelor of Physics at Vilnius University

09.2019 - 06.2023

- Average: 9.1/10
- Thesis: Study of the Calibration of CROC Pixel Detectors with Sensors

WORK EXPERIENCE

User at CERN

06.2022 - current

Research, engineering, software, hardware, analytics, big data

- CMS experiment. Working working in the CMS Inner Tracker Pixel Detector Phase-2 upgrade group.
- CMS experiment. ttH data analysis group. Optimising Higgs pT regression models. Simulating collision data for model training, optimising model structure.
- **Skills:** Python, C++, Data Science, Machine Learning

Senior Laboratory Assistant at Vilnius University

09.2023 - 04.2024

- Working at Experimental nuclear and particle physics center Performing precision studies on particle collision data. Simulating collision processes of ttH same-sign lepton final states for ANN training.
- Optimising neural network architecture.
- **Skills:** Python, Tensorflow, Keras, Pandas, Apache Spark, Git, Data Science

Project specialist at Vilnius University

06.2022 - 12.2022

- CMS research project. Chip testing for CMS Phase-2 upgrades for High Luminosity LHC.
- **Skills:** C++, Bash, ROOT, Data Visualization

CONFERENCES AND VOLUNTEERING

Masterclass in particle physics 2023

03.2023

- *Organising and moderating the activities of participants*

Open Readings 2023

04.2023

- *Speaker at 66th International Conference for Students of Physics and Natural Sciences*
- *Awarded for best poster presentation "STUDY OF THE CALIBRATION OF CROC PIXEL DETECTORS WITH SENSORS"*

Hadron therapy masterclass

03.2024

- *Organized the event and prepared practical tasks for radiation therapy planning for a patient using "matRad" with photon, proton, and carbon ion irradiation*

Programming Skills

Python



C++



MatLab



C



Bash



LaTeX



OS experience

Ubuntu



CentOS



Debian

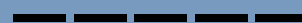


Languages

Lithuanian (Native)



English



German

