Sofiya Sianiuta

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Education

2020-2025	M.S. in Physics and Mathematics, **Norwegian University of Science and Technology** *Master's thesis: Higgs Mediated Neutralino Pair Production in the Next-to-Minimal Supersymmetric Standard Model.*
2023-2024	Exchange year, Theoretical Physics, **Università di Bologna**

Current Employment

09/25 - now	PhD Student in Theoretical Physics, **Uppsala University** *Research on Scattering Amplitude Methods for Gravitational Waves.* *Supervisor: Chia-Hsien Shen.*

Previous Employment

06/24 - 08/24	Research Trainee at dep. of Gas Technology, **SINTEF Energy AS** *Detailed fluid simulations of running ductile fractures in CO_2 pipelines.*
06/23 - 08/23	Summer Internship, **Simula Research Laboratory** *Created three programming projects for IN3110/4110 Higher Level Programming.*
06/22 - 12/22	Part-time employee in Data and Analytics Tribe, **If Insurance** *Created data quality tests using dbt for Customer Analytics squad.*
06/22 - 08/22	Internship in Data and Analytics, **If Insurance** *Development, testing and maintenance of the data warehouse.*

Voluntary work

09/26 - now	Organiser and chair of the HEP-TH weekly Journal Club, Uppsala University
05/26 - now	Board member of the Ångström Science Communication and Outreach group. *Co-organiser of the ScientiFika seminar series at the Department of Physics and Astronomy.*
03/21 - 02/22	Board member (Ambassador) of Nabla Student Organisation *Responsible for communication with the faculty and others with academical interest in Nabla.*
03/21 - 02/22	Leader of EduCom, Nabla's academical committee (member since Sep. 2020 - today) *Led biweekly meetings and assisted fellow committee members in planning and organization of popular science talks, crash courses and colloquium.* *Applied for funding and created a team to initiate weekly "EduCom colloquium".* *Approx. 30-60 students meet up at the colloquia on a weekly basis since autumn 2021.*
09/20 - 10/21	Member of the business contact of Nabla *Arranged meetings and talks between students and relevant employers.*

Teaching

09/25 - now	Teaching duties (20% of full-time), **Uppsala University** *Lead a total of 22 x 90-min interactive problem solving sessions in 1FA156 Special Relativity and 1FA103 Mechanics III plus examination responsibilities.* *Lead a total of 3 x 4hrs lab sessions in 1FA102 Mechanics II plus report examination.*
01/26 - 03/26	Academic Teacher Training Course, **Uppsala University** *Equivalent of 5 weeks full time work. On-campus seminars, individual study, group work and an individual pedagogical project.*
12/22 - 05/23	Lecturing assistant in TDT4102, **Norwegian University of Science and Technology** *TDT4102 - Procedural and Object-Oriented Programming.* *Held supplementary lectures in the course, administative tasks.* *Created and organized a programmic competition* "Climbing Mount Blanc Challenge 2023".
Six semesters in 2021-2025	Teaching assistant, **Norwegian University of Science and Technology** *Various courses in physics and mathematics and the bachelor's and master's level.* *Supervised exercise sessions, corrected analytic and numeric assignments.*

Talks and outreach

06/26	"Modelling Tidal Deformations of Black Holes", The N-PACT Network Meeting, Stavanger, Norway.
05/26	"The Magnusian, the Eikonal Phase and the On-Shell Action", division seminar, Uppsala University.
10/25	"Connections between QCD and gravity through the lens of hadronic cross sections for the LHC", division seminar, Uppsala University.
09/25	"Light-ray operators overview", digital journal club with National Taiwan University.
08/24	"Detailed fluid simulations of running ductile fractures in CO_2 pipelines", SINTEF Energy AS Research Trainee conference.
05/23	Promoted my master's program for the second-year students by giving a 15-min talk on my experience, Norwegian University of Science and Technology.

Languages and software

Languages:	Norwegian (native), English (fluent), Russian (mother toungue), Swedish (conversant).
Programming:	Proficient in Python and C++ .
Software:	Wolfram Mathematica, `LHAPDF`, `GSL`, OpenFOAM, Git, Bash, LaTeX.

Academic references

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