Eleonora Svanberg 🆔

[Inspire HEP](#) / [Google Scholar](#)

PhD Research Topics

My research is broadly on the interface of physics, number theory, geometry, and computation.
Keywords: string theory, number theory, machine learning, applied mathematics and physics

Education

Doctor of Philosophy in Mathematics   University of Oxford, UK
Magdalen College   2024 -
Supervisor: Prof. Xenia de la Ossa
Funding: STFC Scholarship, Saven European Scholarship
Outreach: DEI Student Representative, London Mathematical Society Committee for Women and Diversity in Mathematics (3 years)

Master of Advanced Study in Applied Mathematics   University of Cambridge, UK
Part III of the Mathematical Tripos, St John's College   2022 - 2023
Essay: Holographic CFT_2: Modular Forms Applied to Quantum Gravity
Funding: Part III International Scholarship by the Faculty of Mathematics, Swedish Engineers Scholarship 2022 etc.

Bachelor of Science in Physics   Stockholm University, Sweden
Bachelor thesis: Higher-order time derivative theories and the Ostrogradsky ghost   2019 - 2022

Publications & Preprints

2022
2. **Svanberg, E**.; Cui, C.; Latter, H., MNRAS 2022 [Wavelike nature of the vertical shear instability in global protoplanetary disks](#)
1. **Svanberg, E**, Preprint ArXiV 2022 [Higher-order time derivative theories and the Ostrogradsky ghost](#)

Coding Skills

Languages: Python, Mathematica, LaTeX, Bash/ Zsh, C/C++/C#, SageMath.
Libraries: numpy, matplotlib, snoopy, astropy, pandas.
Frameworks: PyROOT, HEASoft, PyXspec, Athena++.
Other: Experiences with Linux environments and high-performance computing and simulations.

Conferences, Schools & Workshops organised (*scheduled)

*MITP Youngst@rs: Physics and Number Theory; 4 days	Remote	2025

Conferences, Schools & Workshops attended (*scheduled)

Les Houches School: Quantum Geometry [link] 4 weeks; *selected for full funding*	Les Houches, France	2024
ICTP School of Number Theory and Physics [link] 1 week; *G-Research, Institute of Physics*	Trieste, Italy	2024
Strings 2024 [link]	CERN, Switzerland	2024

Awards & Scholarships

University of Oxford STFC Studentship for PhD studies (£150,000)	2024
University of Oxford Saven European Scholarship for "Europe's brightest graduate students" (£3,000)	2024
Nordic Safe Cities Nordic Pioneer Award (£1,800)	2024
Les Houches School Funding to participate in school (£2,100)	2024
G-Research Travel grant to ICTP School (£900)	2024
Institute of Physics Research Student Conference fund for ICTP School (£300)	2024
Fredrika Bremer Scholarship Fund Master's Studies Scholarship (£2,000)	2023
Dr. Felix Neuberghs Fund Master's Studies Scholarship (£1,500)	2023

University of Cambridge Part III International Scholarship (£8,800) 2022
University of Oxford Saven European Scholarship for Master's Studies (£25,000) *Declined due to pursuing Part III* 2022
Handelsbanken Anna Whitlock Trust Master's Studies Scholarship (£8,000) 2022
The Society of Swedish Engineers in Great Britain/Swedish Embassy Master's Studies Scholarship (£5,000) 2022
SEB Foundation Master's Studies Scholarship (£4,500) 2022
VANBRUUN Master's Studies Scholarship (£950) 2022
Handelsbanken Gustaf Söderbergs Foundation Master's Studies Scholarship (£300) 2022
University of Cambridge Philippa Fawcett Internship Programme, for excellent students in mathematics (£4,000) 2021
Swedish Astronomical Youth Association Travel Grant (£300) 2021
The Swedish King's Foundation for Young Leadership Elected by H.M King for Compass Rose Scholarship (£4,500) 2021
The Swedish Federation of Young Scientists Member of the Year, for my work with Girls in STEM 2018
East Swedish Chamber of Commerce The Future Scholarship, for my high school thesis (£300) 2017
Swedish Astronomical Society Elected as the Swedish student for the annual ESO Astronomy Camp (£1,000) 2016
Oxford Royale Academy Thomas Garner bursary, covering fees for summer courses in mathematics (£3,000) 2016

Last updated on October 26, 2024. Certificates, references and transcripts available upon request.