

# Eleonora Svanberg

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## EDUCATION

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**St. John's College, University of Cambridge** Cambridge, UK  
Master's in Applied Mathematics (Part III) 2022 -  
Funding: Part III International Scholarship by the Faculty of Mathematics, Swedish Engineers Scholarship 2022

**Stockholm University** Stockholm, Sweden  
BSc Physics 2019 - 2022  
Bachelor thesis: [Higher-order time derivative theories and the Ostrogradsky ghost](#) supervised by Dr. Fawad Hassan

## EMPLOYMENTS

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**University of Cambridge** Cambridge, UK  
Summer Research Intern at Department of Applied Mathematics and Theoretical Physics (DAMTP) Summer 2021  
Funding: Philippa Fawcett Internship Programme 2021  
Travel Grant: Swedish Astronomical Youth Association

## RESEARCH PROJECTS

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**University of Cambridge** Remote/Cambridge, UK  
Project: Wave-like properties of the Vertical Shear Instability in Protoplanetary Disks 2021 -  
Supervisor(s): Dr. Can Cui, Prof. Henrik Latter  
Publication in MNRAS: <https://doi.org/10.1093/mnras/stac1598>

**Stockholm University** Stockholm, Sweden  
Project: Optimising supernovae 1a modelling by looking at different colour bands, ZTF telescope 2020  
Supervisor: Prof. Edvard Mörtzell

**Royal Institute of Technology** Stockholm, Sweden  
Project: Examined how distances affects the data analysis of supernovae 1a, NuSTAR telescope 2019  
Supervisor: Dennis Alp

**Atlas Experiment, CERN** Geneva, Switzerland  
Project: New Small Wheel Upgrade of Muon Spectrometer, computational and physical work 2017  
Supervisor: Dr. Edoardo Farina

**Royal Institute of Technology and Atlas Experiment, CERN** Stockholm/Geneva  
High School Diploma Project: Precision Measurement of the mass of the z-boson, ATLAS open data from 2015 2017  
Supervisor: Giulia Ripellino

## AWARDS, GRANTS AND HONORS

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**University of Cambridge** Part III International Scholarship (£8,800) 2022

**The Society of Swedish Engineers in Great Britain** (£5,800) 2022

**University of Cambridge** Philippa Fawcett Internship Programme (£3,500) 2021

**Swedish Astronomical Youth Association** Travel Grant (£300) 2021

**The King's Foundation for Young Leadership** Compass Rose Scholarship (£4,000) 2021

**The Swedish Federation of Young Scientists** Member of the Year 2018

**East Swedish Chamber of Commerce** The Future Scholarship (£300) 2017

**Swedish Astronomical Society** ESO Astronomy Camp 2016 (£1,000) 2016

**Oxford Royale Academy** Thomas Garner Bursary 2016 (£3,000) 2016

## PUBLICATIONS

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

## TALKS

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**Summer Research Festival**

Cambridge  
2021

## CODING SKILLS

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**Languages:** Python, C++, C#

**Libraries:** numpy, matplotlib, snoopy, astropy, pandas

**Frameworks:** PyROOT, HEASoft, PyXspec, Athena++

**Other:** Experiences with Linux environments and high-performance computing.

## OUTREACH

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**Girls in STEM: Co-Founder**

Sweden

A non-profit organisation aiming to close the gender gap in STEM (Science, Technology, Engineering and Mathematics) through role models, workshops and a community.

2016 -

<https://girlsinstem.se>