

Sophia Lilleengen

✉ s.lilleengen@surrey.ac.uk
☎ +447308157992
🌐 sophialilleengen

Education

Since 10/2019

University of Surrey, United Kingdom

PhD in Astrophysics

Projects: Modelling stellar streams under the influence of the Large Magellanic Cloud.

Supervisors: Denis Erkal (Surrey), Justin Read (Surrey).

04/2016 - 01/2019

University of Heidelberg, Germany

M.Sc. in Physics

Fields: Astronomy and computational science.

Thesis: Adaptive Dynamics - can Orbital Actions of Globular Clusters constrain the Gravitational Potential of Galaxies? (at ESO; 18.01.2019, score 1.3)

Supervisors: Wilma Trick (MPA), Glenn van de Ven (ESO).

09/2012 - 03/2016

B.Sc. in Physics

Thesis: Hunting for Intermediate-Mass Black Holes in simulated Globular Clusters using Integrals of Motion. (at MPIA; 24.03.2016, highest score 1.0)

Supervisors: Paolo Bianchini (MPIA), Wilma Trick (MPIA), Glenn van de Ven (MPIA).

Research Experience

03/2019 - 05/2019

ICRAR/UWA, Perth, Australia

Pre-doctoral student

Project: The impact of lumpiness in a dark matter halo on the diffusion in orbits.

Supervisors: Chris Power (ICRAR/UWA), Peter Quinn (ICRAR/UWA).

05/2017 - 10/2017

European Space Astronomy Center, Madrid, Spain

Trainee

Project: Characterising galaxy evolution in nearby galaxy clusters.

Supervisors: Ricardo Pérez Martínez (ESAC), Ana Perez Garcia (ESAC), Bruno Altieri (ESAC).

Talks, Conferences & Schools

07/2019

Conference & Summer School

IAUS353: Galactic Dynamics in the Era of Large Surveys, Shanghai, China, **Talk**

01/2019

Winter School

The Milky Way in the Gaia Era, Saas-Fee, Switzerland

11/2018

Conference

Survival of Dense Star Clusters in the Milky Way System, Heidelberg, Germany, **Talk** & Session chair

09/2018

Journal Club

ESO, Garching, Germany

08/2018

Conference

IAU 2018 General Assembly, Vienna, Austria, Volunteering in Symposium: IAUS 344: Dwarf Galaxies

07/2018

Conference

The formation of globular clusters at high and low redshift, Sexten, Italy, Poster with highlights talk

04/2018

Workshop

Schwarzschild modeling, Heidelberg, Germany

08/2016

Summer school

Astro Hack Week, Berkeley, USA

06/2016

Conference

SFB Workshop: Star Clusters - Dynamics and Observations, Heidelberg, Germany, **Talk**

Public Outreach

Since 10/2019

Astronomy evenings, University of Surrey

06/2018 - 02/2019

ESO Supernova, Volunteer for presenting planetarium shows.

12/2017 - 02/2019

Astronomy talks at secondary schools

Organising

06/2020

Doctoral College Conference, University of Surrey, Secretary

10/2018

Population Dynamics Collaboration Meeting, Riquewihr, France, Principal
organiser

Languages & Skills

German (native), English (fluent), French (advanced), Spanish (beginner), Norwegian (beginner)

UNIX/LINUX; Python; VizieR, SIMBAD, NED, MAST; \LaTeX