

CV CHRISTINA SCHOETTLER

Contact Details

Astrophysics Group, Blackett Laboratory
Imperial College London
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EDUCATION

- **PhD Astronomy** (STFC-funded), The University of Sheffield, UK, graduated in 2022
 - Thesis title: "Using ejected stars to constrain the initial conditions of young star-forming regions"
- **MSc Astrophysics** (First Class), Liverpool John Moores University, UK, graduated in 2017
 - Thesis title: "On the spatial correlation of rotation curves of spiral galaxies with their star formation profiles"
- **BSc (Hons) Physical Science** (Upper-Second Class), The Open University, UK, graduated in 2014
 - Final project: "Compact object binary mergers as possible progenitors of short Gamma-Ray Bursts"
- **Master's Degree in Business Administration** (German equivalent) with emphasis on Marketing, The University of Giessen/Germany, graduated in 2002

PROFESSIONAL EXPERIENCE (ACADEMIC)

March 2022 - present **Research Associate**
Imperial College London, UK

October 2018 - March 2019 **Visiting Researcher**
ESTEC/ESA, Noordwijk, Netherlands

TEACHING EXPERIENCE

In progress (2023) **Associate Fellow of the Higher Education Academy Accreditation**

2022 - 2023 **Computer Lab Demonstrator**
Imperial College London UK
Year 2 undergraduate computer lab (object-oriented programming) – demonstrating & marking

2018 - 2019 **Postgraduate Demonstrator/Teaching Assistant**
The University of Sheffield, UK
Supporting module leaders during labs for several different modules: Observing the Night Sky, Stellar Structure and Evolution, Research Skills, Professional Skills in Physics and Astronomy

SUPERVISION EXPERIENCE

- 10-week summer project (2022) - “Runaway stars from NGC 6530 with Gaia DR3”
- BSc Physics 3rd year essay project (2022/23): “The Kepler Dichotomy in exoplanet system architectures”
- BSc Physics 3rd year computational project (2023): “Effect of repeated stellar encounters on exoplanet systems architecture”

PUBLIC OUTREACH & ENGAGEMENT

- Notting Hill and Ealing High School: Astronomy and computer science day conference – outreach event, talk and part of project judging panel (May 2023 - planned)
- Imperial Lates: Sci-fi, exoplanet atmosphere science (April 2022)
- Tapton School Science Seminar Series talk (December 2020)
- PubhD Sheffield – Explain your PhD in 10 minutes (December 2020)
- Cyber Café Scientifique talk – promoting science to a wider general audience (October 2020)
- Widening participation at University of Sheffield short talk to year 11 students (October 2020)
- Mexborough & Swinton Astronomical Society talk (August 2020)
- DiscoverSTEM Physics lecture at University of Sheffield to pupils aged 16-18 (July 2019)

CONFERENCE TALKS & SEMINARS

- Eslab 55: understanding planets in the solar system and beyond in Noordwijk, Netherlands (March 2023): **Contributed talk** “Imprints of birth: the effects of stellar encounters in the birth cluster on Super-Earth planetary systems”
- UK exoplanet community meeting in Edinburgh, UK (September 2022): **Contributed talk** “Imprints of birth: how the birth cluster affects planetary architecture”
- Threats from the surroundings: virtual ESO e-workshop on the importance of environment for the evolution of protoplanetary discs and formation of planets (November 2020): **Contributed talk** “Double trouble: Protoplanetary systems may experience more than one dense star-forming environment”
- From Gas to Stars: The Links between Massive Star and Star Cluster Formation (StarFormMapper Final Conference) in York, UK (September 2019): **Contributed talk** “Runaways from the ONC and other young star clusters with Gaia DR2”
- Stars on the Run II in Potsdam, Germany (August 2019): **Contributed talk** “Runaways from the ONC in simulations and observations”
- Eslab 53: The Gaia Universe in Noordwijk, Netherlands (April 2019): part of LOC and **pitch talk** “Runaway star candidates from the ONC with Gaia DR2”
- Wonders of Star Formation in Edinburgh, UK (September 2018): **Contributed talk** “Making Runaways: The Ejection of Stars from Clusters due to Dynamical Evolution”
- Modest-18 (Dense Stellar Systems in the Era of Gaia, LIGO & LISA) in Santorini, Greece (June 2018): **Contributed talk** “Kinematics of Stars Ejected from Young Clusters in N-body Simulations”

- **Talk** at Leiden Observatory, Netherlands (March 2023): “The effects of stellar encounters in the birth cluster on Super-Earth planetary systems”
- **Seminars** at the Open University, UK and Anton Pannekoek Instituut of Astronomy Amsterdam, Netherlands (March 2023): “Effects of dynamical interactions on stars and planets in their birth environment”
- **Seminar** at the University of Surrey, UK (November 2019): “Runaways from young star-forming regions in simulations and observations”
- **Seminar** at the University of Sheffield, UK (May 2019): “Finding Runaways: The search for ejected stars from the Orion Nebula Cluster with *Gaia* DR2”

REFEREEING EXPERIENCE

2022-2023: Refereeing of journal articles in A&A and ApJS

2021: Refereeing an observation proposal for the OPTICON Network

COMMITTEE & OTHER ORGANISATIONAL WORK

- **Since 10/2022: Chair of the Research Associate (RA) Representative Committee in the Department of Physics (Imperial College London, UK):**
 - Representation of the Physics RA community on Department and Faculty-level
 - Organisation of committee events and career panels (industry and academic)
- **Recruitment panel member:**
 - Astrophysics group postdoctoral interviews (2023)
 - Physics department deputy head interviews (2023)

ACADEMIC SCHOOLS/WORKSHOPS

- Doctoral School on Numerical Astrophysics, Switzerland (June 2022)
- Dustbuster (Dust and Gas in planet-forming discs) summer school, Italy (May 2022)
- STFC School on Data Intensive Science, Virtual Event (October 2020)
- STFC Summer School in Artificial Intelligence and Machine Learning, London, UK (July 2018)
- 4IR CDT Software Carpentry workshop, Manchester, UK (July 2018)
- 4IR CDT training: Convolutional Neural Networks, Sheffield, UK (June 2018)
- 4IR CDT Workshop on Class Imbalance in Machine Learning Classification, Manchester, UK (November 2017)
- Sheffield teaching assistant training workshops (February 2018): Lecturing, Assessment & Feedback, Problem Solving, Learner Diversity: Managing Student Expectations and Transitions

AWARDED FUNDING

Postgraduate Researcher Experience Scheme (PREP) 2018

This scheme run by the University of Sheffield awards bursaries of up to £1000 to postgraduate students to support work experience, work shadowing, training, advice, or insights. Awarded the maximum amount of £1000 to support my stay at ESTEC/ESA.

OTHER PROFESSIONAL EXPERIENCE (INDUSTRY)

November 2007 – August 2017

Bosch Lawn & Garden Ltd, Stowmarket/United Kingdom

Senior Product Manager

January 2004 – October 2007

Franz Kaldewei GmbH & Co. KG, Ahlen/Germany

Product Manager

LANGUAGES & COMPUTER SKILLS

German	native language
English	full professional knowledge
Python 3	intermediate knowledge
Fortran	intermediate knowledge
ADQL/SQL	basic knowledge