

Ekaterina ILIN

PhD student in astrophysics

date of birth

1992-09-11

contact

Carl-Dähne-Str. 10
14469 Potsdam
Germany

+49 (176) 531 351 97

+49 (331) 749 928 0

eilin@aip.de

github/ekaterinailin

languages

Russian, German
(bilingual)
English C1
French B2

skills

Python, Unix, LaTeX,
Git(Hub)

education

2018 → 2022 **PhD in Astrophysics** Leibniz Institute for Astrophysics Potsdam (AIP), Germany
Supervisor: Prof. Dr. Katja Poppenhäger
Stellar Flares in Star-Exoplanet Systems and Young Stars

I am interested in magnetic star-planet interactions, and their long-term effects on exoplanet habitability and stellar evolution.

2016 → 2018 **Master of Science in Astrophysics** University of Potsdam, Germany
Supervisor: Prof. Dr. Klaus Strassmeier
Flares in Clusters using K2 Data
1,0 "with distinction"

This thesis quantified the relation between flaring activity on cool stars and their masses and ages for ZAMS to 600 Myr and K to mid-M dwarfs.

2012 → 2016 **Bachelor of Science in Physics** Karlsruhe Institute of Technology, Germany
Specialization in Biophysics
Supervisor: Prof. Dr. Ulrich Nienhaus
Uptake of TAT-coated Gold Nanoclusters in Live HeLa-Cells
1,4 "very good"

work and teaching

2018 **Leibniz Institute for Astrophysics (AIP)** Potsdam, Germany
Research Assistant

2016 → 2018 **University of Potsdam** Potsdam, Germany
Teaching assistant for undergraduates.

2011 → 2012 **SchulLV GmbH** Karlsruhe, Germany
Author of teaching aid in mathematics.

presentations

2019 **Conference talk** 16th Potsdam Thinkshop:
The rotation periods of cool stars:
Measurements, uses, connections and prospects
Potsdam, Germany

At a gallop: stellar flares from Kepler/K2 and TESS

2019 **Conference talk** Planet-Star Connections in the Era of TESS and Gaia
Santa Barbara, CA, USA

Stellar magnetic evolution: flaring activity in K2 open clusters

2018 **Conference poster** CoolStars20
Boston, MA, USA

Exploring flaring activity as an age indicator using open cluster data

2018 **Workshop talk** Dwarf Stars and Clusters with K2
Boston, MA, USA

In search of the flaring-age relation.

awards and scholarships

2020 →ongoing	Doctoral Scholarship Includes a stipend, and additional academic and financial support throughout the doctoral studies.	German Academic Scholarship Foundation
2019	Graduation Award Award tendered to excellent master theses earned at universities in Berlin and Potsdam.	Physikalische Gesellschaft zu Berlin, Berlin, Germany
2018	Visiting Scientist Awarded funding for a research visit at the Kepler mission headquarters.	NASA Ames Research Center, Mountain View, CA, USA
2018	Hackathon Challenge Winner Data science challenge by <i>Tableau</i> .	HackHPI, Hasso Plattner Institute, Potsdam, Germany
2014	Erasmus+ Scholarship Awarded funding for six month of undergraduate studies. Focus: Space Physics, Computational Physics	Universitet i Oslo, Norway
2012 →2018	Full Scholarship Includes a stipend, and additional academic and financial support throughout the undergraduate and graduate studies.	German Academic Scholarship Foundation

refereed publications

Flares in open clusters with K2. I. M45 (Pleiades), M44 (Praesepe) and M67
Ilin, Ekaterina; Schmidt, Sarah J.; Davenport, James R. A.; Strassmeier, Klaus G.
2019, *Astronomy & Astrophysics*, 622, A133/16.
doi:10.1051/0004-6361/201834400 , ArXiv:1812.06725

volunteering

2017 →ongoing	Python in astronomy Running a Python code review group with the master students in astrophysics on a biweekly basis in 2017/2018. Running the Python Club at AIP since 2019.	University of Potsdam Leibniz Institute for Astrophysics Potsdam - AIP
2016 →ongoing	Effective Altruism Organising interdisciplinary workshops for 20-120 participants, reading groups, and recreational activities; local group head in Potsdam. Currently member of the executive board of the German Network for Effective Altruism (NEAD e.V.).	Effective Altruism Berlin, Potsdam Studienstiftung d. dt. Volkes Netzwerk für Effektiven Altruismus Deutschland e.V.
2013 →ongoing	Junior scientists network Organising interdisciplinary workshops and symposia for students and young researchers in STEM, presenting at science fairs, publishing articles in the club magazine; member of the executive board.	Deutsches Jungforschernetzwerk - juFORUM e.V.