

Ekaterina ILIN

PhD student in astrophysics

date of birth

1992-09-11

contact

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languages

Russian, German
(bilingual)
English C1
French B2

skills

Python, Unix, LaTeX,
Git(Hub)

education

- 2018 → 05/2022 **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
Mentor: Dr. Sarah J. Schmidt
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"

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

Flares in Open Clusters with K2. II. Pleiades, Hyades, Praesepe, Ruprecht 147, and M67

Ilin, Ekaterina; Schmidt, Sarah J.; Poppenhäger, Katja; Davenport, James R. A.; Kristiansen, Martti H.; Omohundro, Mark

2020, *Astronomy & Astrophysics*, forthcoming.

arXiv:2010.05576

telescope time

- 2020 **SALT HRS, 2.8 hours DDT**
PI: Katja Poppenhäger

work and teaching

2020	University of Potsdam <i>Teaching assistant for undergraduates.</i>	Potsdam, Germany
2018	Leibniz Institute for Astrophysics (AIP) <i>Research Assistant</i>	Potsdam, Germany
2016 → 2018	University of Potsdam <i>Teaching assistant for undergraduates.</i>	Potsdam, Germany

presentations

2020	Conference talk	Annual Meeting of the German Astronomical Society virtual, Germany
	Flares, mass, age, AND rotation. Calibrating the flaring-age-mass relation in open clusters.	
2020	Poster exhibition	Royal Astronomical Society Early Career Poster Exhibition virtual, global
	Where do giant flares occur on small stars?	
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	German Academic Scholarship Foundation
	Includes a stipend, travel grants, and academic support throughout the doctoral studies.	
2019	Graduation Award	Physikalische Gesellschaft zu Berlin, Berlin, Germany
	Award for excellent master theses in physics earned at universities in Berlin and Potsdam.	
2018	Visiting Scientist	NASA Ames Research Center, Mountain View, CA, USA
	Awarded funding for a research visit at the Kepler mission headquarters.	
2014	Erasmus+ Scholarship	Universitet i Oslo, Norway
	Awarded funding for six month of undergraduate studies. Focus: Space Physics, Computational Physics	
2012 → 2018	Full Scholarship	German Academic Scholarship Foundation
	Includes a stipend, travel grants, and academic support throughout the undergraduate and graduate studies.	