Ekaterina ILIN PhD student in astrophysics

education

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1992-09-11

contact

PhD in Astrophysics 2018

Leibniz Institute for Astrophysics Potsdam (AIP), Germany

→07/2022

 $2012 \rightarrow 2016$

Supervisor: Prof. Dr. Katja Poppenhäger

Stellar Flares in Star-Exoplanet Systems and Young Stars

Carl-Dähne-Str. 10 14469 Potsdam Germany

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

+49 (176) 531 351 97

github/ekaterinailin

Supervisor: Prof. Dr. Klaus Strassmeier

Mentor: Dr. Sarah J. Schmidt

Flares in Clusters using K2 Data

1.0 "with distinction"

languages

eilin@aip.de

masses and ages for ZAMS to 600 Myr and K to mid-M dwarfs. **Bachelor** of Science in Physics

Karlsruhe Institute for Technology, Germany

Russian, German (bilingual) English C1 French B2

Specialization in Biophysics

Supervisor: Prof. Dr. Ulrich Nienhaus

Uptake of TAT-coated Gold Nanoclusters in Live HeLa-Cells

This thesis quantified the relation between flaring activity on cool stars and their

1,4 "very good"

skills

Python, Unix, LaTeX, Git(Hub)

refereed publications

Giant white-light flares on fully convective stars occur at high latitudes

Ilin, Ekaterina: Poppenhäger, Katja: Schmidt, Sarah J.; Järvinen, Silva P.: Newton, Elisabeth R.; Alvarado-Gómez, Julian D; Pineda, Sebastian J.; Davenport, James R. A.; Oshagh, Mahmoudreza; Ilyin, Ilya

2021, Monthly Notices of the Royal Astronomical Society, XXXXXXX

DOI arXiv:XXXX.XXXXX

AltaiPony - Flare science in Kepler, K2 and TESS light curves

Ilin, Ekaterina

2021, Journal of Open Source Software, 6(62), 2845

10.21105/joss.02845

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

2021, Astronomy & Astrophysics, 645,i d.A42, 25 pp.

doi:10.1051/0004-6361/202039198 arXiv:2010.05576

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

telescope time

2020 SALT HRS, 2.8 hours DDT

PI: Katja Poppenhäger, Co-Is: Ekaterina Ilin, Sarah J. Schmidt

work and teaching

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

academic presentations and posters

2021	Contributed talk	European Astronomical Society Meeting 2021 virtual			
	The coolest stars may not hit their planets with their flaring all that much				
2021	Contributed talk XMM-Newton Scientific renvironments	ence Workshop: A high-energy view of exoplanets and			
	Giant white-light flares on fully cor	virtual nvective stars occur at high latitudes			
2021	Virtual Poster Cambridge	Workshops of Cool Stars, Stellar Systems and the Sun CoolStars 20.5 virtual, global			
	Giant white-light flares on fully convective stars occur at high latitudes				
2020	Contributed talk	Annual Meeting of the German Astronomical Society virtual, Germany			
	Flares, mass, age, AND rotation. Calibrating the flaring-age-mass re	lation in open clusters.			
2019	Contributed 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	Contributed talk	Planet-Star Connections in the Era of TESS and Gaia Santa Barbara, CA, USA			
	Stellar magnetic evolution: flaring activity in K2 open clusters				
2019	Seminar talk	Centre for Star and Planet Formation (STARPLAN) Copenhagen, Denmark			
	Stellar magnetic evolution: superfla	ares			
2018	Conference poster	CoolStars20 Boston, MA, USA			
Exploring flaring activity as an age indicator using open cluster data					
2018	Contributed talk	Dwarf Stars and Clusters with K2 Boston, MA, USA			
	In search of the flaring-age relation	n.			

awards and scholarships

Fulbright Scholarship for Doctoral Students 2021 The German-American Fulbright Commission →ongoing Includes a stipend, travel grant, and academic support throughout a 6-month research stay in the USA. 2020 **Doctoral Scholarship**

Includes a stipend, travel grants, and academic support throughout the doctoral →ongoing

studies.

2019 **Graduation Award** Physikalische Gesellschaft zu Berlin, Berlin, Germany

Award for excellent master theses in physics earned at universities in Berlin and

German Academic Scholarship Foundation

Potsdam.

Visiting Scientist 2018 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.

outreach and civic involvement

Public talk on YouTube 2021 Sterne, Weltall und das Leben

> **30-min YouTube video** about electromagnetic star-planet interactions on the popular German astronomy channel "Sterne, Weltall und das Leben", > 20k

views.

Effective Altruism 2019 → 2021 Netzwerk für Effektiven Altruismus Deutschland e. V.

> Co-founder and current chair of the board at the German Effective Altruism Network (NEAD e. V.). Coordinating the German-speaking Effective Altruist

community: Community building, strategy, volunteer management.

2013 → 2019 Junior scientists network Deutsches Jungforschernetzwerk - juFORUM e.V.

> 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.