

EkaterinaLIN

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 →ongoing **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
Tutor for undergraduates.
- 2011 →2012 **SchulLV GmbH** Karlsruhe, Germany
Author of teaching aid in mathematics.

awards and scholarships

- 2019 **Graduation Award** Physikalische Gesellschaft zu Berlin, Berlin, Germany
Award tendered to excellent master theses 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.
- 2018 **Hackathon Challenge Winner** HackHPI, Hasso Plattner Institute, Potsdam, Germany
Data science challenge by *Tableau*.
- 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

presentations

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| 2019 | Poster | 3rd Advanced School on Exoplanetary Demographics, Vietri sul Mare, Italy |
| | | The frequency of super-Carrington flares in the solar-age cluster M67 |
| 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 |
| 2019 | Seminar talk | Centre for Star and Planet Formation (STARPLAN), Copenhagen, Denmark |
| | | Stellar magnetic evolution: superflares |
| 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. |

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](https://doi.org/10.1051/0004-6361/201834400), [ArXiv:1812.06725](https://arxiv.org/abs/1812.06725)

volunteering

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| 2017 →2018 | Python in astronomy | University of Potsdam |
| | | Running a Python code review group with the master students in astrophysics on a biweekly basis. |
| 2016
→ongoing | Effective Altruism | Effective Altruism Berlin, Potsdam; Studienstiftung d. dt. Volkes |
| | | Organising interdisciplinary workshops for 20-120 participants, reading groups, and recreational activities; local group head in Potsdam. |
| 2013
→ongoing | Scientific youth | Deutsches Jungforschernetzwerk - juFORUM e.V. |
| | | Organising interdisciplinary workshops and symposia for youth in STEM, presenting at science fairs, publishing articles in the club magazine; member of the executive board. |