

ROBERT STEIN

CURRICULUM VITAE

MULTI-MESSENGER ASTRONOMY | TIDAL DISRUPTION EVENTS | MACHINE LEARNING

PERSONAL DATA

PLACE AND DATE OF BIRTH: London | 10 June 1995
CITIZENSHIP: British & Irish
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EDUCATION

JULY 2017 – NOV. 2021	PhD in EXPERIMENTAL PHYSICS, Humboldt University of Berlin / DESY Zeuthen Thesis: “ <i>Search for Multi-Messenger Transients with IceCube and ZTF</i> ” Research Advisor: A. FRANCKOWIAK Graded “ <i>Summa cum laude</i> ” (with the highest distinction) <ul style="list-style-type: none">• Cross-correlation of neutrinos with multi-wavelength catalogues• Led response to neutrino alerts as the <i>IceCube realtime shifter</i>• ZTF follow-up of neutrino/gravitational wave/GRB events
SEP. 2013 – JUNE 2017	MSci in PHYSICS WITH A YEAR IN EUROPE, Imperial College London / University of Hamburg Thesis: “ <i>Reconstruction of Charge Number of Heavy Cosmic Rays using Cherenkov Light</i> ” Research Advisor: D. HORNS (University of Hamburg) Graduated with First Class Honours

ACADEMIC CAREER

NOV. 2021 – PRESENT	Postdoctoral Scholar in ASTRONOMY, California Institute of Technology Mentor: M. M. KASLIWAL <ul style="list-style-type: none">• ZTF follow-up of neutrino/gravitational wave/GRB events• WINTER data analysis and multi-messenger follow-up• Development of TDE photometric classifier: <code>tdescore</code>
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SEMINARS, COLLOQUIA AND CONFERENCE TALKS

18 invited talks, most recently Caltech Astronomy Colloquium (2023)

SELECTED TELESCOPE TIME AWARDED (PI ONLY)

Keck (32 hours, 4 semesters), Palomar (18 hours, 2 semester), Gemini (9 hours, 3 semesters)
VLA (6 hours, DDT), Chandra (25ks, DDT)

SCHOLARSHIPS, AWARDS AND HONOURS

11 TH MAY 2023	Winner of the Global Neutrino Network (GNN) Thesis Prize
22 ND MAR 2023	Winner of the DPG (German Physical Society) Dissertation Prize for the Matter and Cosmos division, DPG Annual Meeting, Dresden
26 TH MAR 2021	Winner of the <i>IceCube Impact Award</i> , IceCube Spring 2021 Meeting
2 ND JULY 2020	Winner of first session poster competition, Neutrino 2020 Conference
16 TH OCT 2019	Winner of the annual DESY Science Slam, DESY Hamburg
21 ST NOV 2018	Winner of the annual Zeuthen Science Slam, DESY Zeuthen

SELECTED PROFESSIONAL RESPONSIBILITIES

REVIEWER	<i>ApJ</i> , <i>MNRAS</i> , <i>PASP</i> (journal reviewer), <i>JCMT</i> , <i>Gemini</i> (external referee), <i>Caltech Palomar/Keck</i> (TAC member)
LEADERSHIP	<i>ZTF AGN/TDE Chair</i> (2022-2023), <i>ZTF MMA Co-Convenor</i> (2022-Present), <i>ZTF Publication Board Member</i> (2022-Present) <i>ZTF Collaboration Meeting</i> , <i>Caltech-LANL TDA Workshop</i> , <i>Caltech-LANL Summer School (LOC/SOC)</i>

SUPERVISION, TEACHING AND OUTREACH

STUDENT SUPERVISION	Master's degree student (2 students) Bachelor's degree student (1 student) Summer undergraduate research fellow (1 student) High-school students for summer research projects (3 students)
TEACHING	Lecturer: <i>Annual ZTF Summer School</i> at <i>UMN</i> (July 2022, July 2023) Teaching Assistant: <i>Experimental Astroparticle Physics</i> at <i>HU Berlin</i> (Summer Semester 2018, Summer Semester 2019)
OUTREACH	<i>Astronomy on Tap</i> Presenter, <i>International Cosmic Day</i> Volunteer (2 years), <i>'Lange Nacht der Wissenschaft'</i> Volunteer (2 years)

ADDITIONAL INFORMATION

Collaboration Membership	WINTER, ZTF, GROWTH, LSST-TVSSC
Programming Skills:	Python, PostgreSQL, \LaTeX , Bash, git (Advanced)
Language Skills:	English (Native Speaker), German (Advanced - C1)
Observing Experience:	Keck: LRIS, NIRES, DEIMOS (8 nights) Palomar: WIRC, DBSP, TSpec (13 nights) La Silla: NTT (8 nights)