
Curriculum Vitae

Felix Aron Dannert

✉ fdannert@ethz.ch

Education

2021–2025	<i>Ph.D. in Astrophysics</i> (Eidgenössische Technische Hochschule (ETH) Zürich)
2018–2021	<i>M.Sc. in Physics</i> (ETH Zürich)
2015–2018	<i>B.Sc. in Physics</i> (Universität Konstanz)

Experience

since 2025	<i>Lead Instrument Scientist – LIFE Space Mission at ETH Zürich</i> Website
since 2025	<i>President – Akademische Fluggruppe Zürich (AFG)</i> Website
2023–2025	<i>Vice-President – Akademische Fluggruppe Zürich (AFG)</i>
2021	<i>Co-Initiator – NAUTILUS project</i> Website
2019–2020	<i>Board member – Akademische Raumfahrt Initiative Schweiz (ARIS)</i> Website
2019	<i>Systems Engineer – Sounding rocket HEIDI</i> Website

Teaching experience

2024	<i>Teaching assistant – Exoplanets</i> (ETH Zürich)
2021–2023	<i>Teaching assistant – Physics I</i> ; 3 semesters (ETH Zürich)
since 2021	<i>Co-Initiator & Co-Organizer – Lecture Series: Space Research and Exploration</i> ; 4 semesters (ETH Zürich)
2017	<i>Teaching assistant – Analysis I</i> (Universität Konstanz)

Poster presentations, talks, and workshops

09/2023	<i>Participation</i> – LIFE science workshop, FU Berlin, Germany
06/2023	<i>Invited participation</i> – Breakthrough Discuss, UC Santa Cruz, USA
06/2023	<i>Contributed Talk</i> – 242nd AAS Meeting , Albuquerque, USA (online)
11/2022	<i>Contributed Poster</i> – invited KISS Workshop , Caltech, USA
05/2022	<i>Contributed Talk & Poster</i> – Exoplanets IV , Las Vegas, USA
04/2022	<i>Contributed Talk</i> – Junior Researchers' Assembly (JURA III), Switzerland
09/2021	<i>Contributed Talk & Poster</i> – EPSC 2021 , Online

Supervision

2026	<i>Master's Thesis</i> – Nicolas Feuchthofen : Finding Optimal Random Noise Error Budget Distributions for the LIFE Space Mission With Arbitrary Nulling and Noise Models
2026	<i>Semester Thesis</i> – Mariasole Agazzi : Optimal Rotation-Speed Regimes for Planet Detection in a LIFE-like Nulling Interferometer
2026	<i>Semester Thesis</i> – Advait Dhingra : The Effect of a Constrained Field-of-Regard on the Science Performance of the LIFE Space Mission
2025	<i>Semester Thesis</i> – Nicolas Feuchthofen : Constraining Stellar Contrast Requirements for the LIFE Space Mission using an Instrument Agnostic Approach
2024	<i>Master's Thesis</i> – Tim Mosimann : Inferring basic circumplanetary disk properties using JWST/MIRI photometry
2024	<i>Semester Thesis</i> – Olivier Jungo : Infrared Stellar Variability on Sub-Hour Timescale in the Context of Nulling Interferometry
2024	<i>Semester Thesis</i> – Laura Ruther : Analysis of noise confusion considering exoplanets observed by the LIFE mission
2023	<i>Master's Thesis</i> – Vania Vincenzi : Multi-planet systems in LIFE
2023	<i>Master's Thesis</i> (Co-supervision) – Rick Röthlisberger : HWO Meets LIFE: Synergies Between Future Exoplanet Direct Imaging Flagship Missions in Reflected Light and Thermal Emission
2023	<i>Master's Thesis</i> (Co-supervision) – Caroline Strähl : The role of technical requirements in signal extraction for nulling interferometry in the context of the LIFE mission
2023	<i>Semester Thesis</i> (Co-supervision) – Mariasole Agazzi : Optimisation LIFE array movements

2023	<i>Semester Thesis</i> (Co-supervision) – Rick Röthlisberger : Targeting the Most Wanted Exoplanets: How to Quantify Requirements for Observation of Specific Exoplanet Types Through LIFE
2023	<i>Semester Thesis</i> – Marcellin Feasson : The LIFE mission: from the search phase to the characterization phase
2022	<i>Semester Thesis</i> – Lukas Felix : A comparison of local zodiacal dust models for future use in the LIFEsim tool
2021	<i>Semester Thesis</i> – Xavier Kervyn : Impact of non-perfect nulls on the detectable population by the LIFE space mission
2021	<i>Semester Thesis</i> – Fabio Holdener : Implementation of Inclined Exozodi Dust Disks Into LIFEsim and Their Impact on LIFE's Capability to Detect Exoplanets
2021	<i>Semester Thesis</i> – Andreas Küttel : Imagining the Second Phase of the LIFE mission
2021	<i>Semester Thesis</i> – Tanja Kaister : Investigating Nearby Known Exoplanets With LIFEsim
2021	<i>Semester Thesis</i> – Christoph Strähl : Effects of time simulation on the signal in LIFEsim
2021	<i>Semester Thesis</i> – Nicole Lehmann : Influence of the baseline on the SNR of detected exoplanets

Scientific community service

2022–2023	<i>Reviewer</i> for NASA Review Panel
2022–2023	<i>Commissioning</i> of VLT/ERIS – Contributed to planning, execution, evaluation and documentation of HCI-mode commissioning
since 2021	<i>Developer</i> and maintainer of open-source package LIFEsim

Awards

2018	<i>VEUK Award</i> – outstanding Bachelor's degree (Universität Konstanz)
------	--

Awarded telescope time (selection)

2025	<i>Co-investigator</i> – PI: Gabriele Cugno; Circumplanetary disks; MIRI: 60 h
2025	<i>Co-investigator</i> – PI: Valentin Christiaens; Exoplanet direct imaging; SPHERE: 4 h
2024–2025	<i>Co-investigator</i> – PI: Markus Bonse; Exoplanet direct imaging; ERIS: 50 h
2024	<i>Principal investigator</i> – Exoplanet direct imaging; ERIS: 3 h

2024
2022

Co-investigator – PI: Gabriele Cugno; Exoplanet direct imaging; **VISIR: 4 h**
Co-investigator – PI: Anna Boehle; Exoplanet radial velocity; **ESPRESSO: 72 h**