

MARRICK BRAAM (Version September 2026)

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PROFESSIONAL EXPERIENCE

2026/10 - PRESENT	SNSF Ambizione Fellowship Center for Space and Habitability, University of Bern
2026/01 - PRESENT	LIFE Science Community Lead Large Interferometer For Exoplanets
2024/09 - PRESENT	CSH Postdoctoral Fellowship Center for Space and Habitability, University of Bern
2020/09 – 2024/06	Marie Curie joint PhD Fellow The University of Edinburgh & KU Leuven Part of MSCA-ITN CHAMELEON

EDUCATION

2020/09 – 2024/06	Joint PhD in Geosciences, Astronomy & Astrophysics Thesis: 'The Atmospheric Chemistry of Earth-like Exoplanets: a 3-D Perspective' Supervisors: Prof P.I. Palmer & Prof. L. Decin The University of Edinburgh, Edinburgh, UK KU Leuven, Leuven, BE
2018/09 – 2020/07	Master of Science in Astronomy Thesis: 'Chemical trends in hot Jupiter atmospheres' Supervisor: Prof F.F.S van der Tak University of Groningen, Groningen, NL
2014/09 – 2017/07	Bachelor of Science in Astronomy Thesis: 'The Habitability of Exoplanets' Supervisor: Prof F.F.S van der Tak University of Groningen, Groningen, NL

AWARDED FUNDING

2025/05	Young Scientist Travel Support, Swiss Society for Astrophysics and Astronomy Awarded CHF1000 to attend EGU25 in Vienna
2025/04	Conference Support for Young Academics, University of Bern Awarded CHF1250 to attend EGU25 in Vienna
2025/04	Visitor Programme, Leverhulme Centre for Life in the Universe Awarded £1950 for a 2-week visit to LCLU at the University of Cambridge
2024/02	CSH Fellowship, Prize Postdoctoral Fellowship Center for Space and Habitability, University of Bern

STUDENT SUPERVISION

2025/05 – 2025/08	Khalen Ferris, University of Exeter Final Project MSci (co-supervisor with Prof. Nathan Mayne) Simulations of Atmospheric Chemistry for the Archean Earth and Exoplanets with the CRAHCN-O Chemical Network
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2023/09 – 2023/12	Elias Esquenet & Milo Jacobs, KU Leuven Final Project BSc Physics Lightning-induced chemistry on exoplanets with continents
2022/07 – 2022/09	Ellery Gopaoco, University of Cambridge Summer project at Centre for Exoplanet Science in Edinburgh Prebiotic chemistry on M-dwarf exoplanets

TEACHING EXPERIENCE

2026/09 - Now	Lecturer for Matter and Life in the Universe MSc course, University of Bern
2025/11	Guest Lecture on Exoplanet Atmospheric Chemistry MSc course: Exoplanets and Origins of Life, University of Bern
2025/09 – 2025/12	Tutor in Physics I University of Bern
2022/02 – 2024/06	Tutor in Earth's Atmospheric Composition The University of Edinburgh
2019/10 – 2020/07	Tutor in Astrobiology & Calculus University of Groningen

SEMINARS

2025/11	The Atmospheric Chemistry of Terrestrial Exoplanets A&A Seminar, <i>University of Glasgow, Scotland</i>
2025/10	The Atmospheric Chemistry of Terrestrial Exoplanets Exoplanets Seminar, <i>Geneva Observatory, Switzerland</i>
2025/02	The Atmospheric Chemistry of Terrestrial Exoplanets Exoplanets Group Meeting, <i>ETH Zurich, Switzerland</i>
2024/10	The Atmospheric Chemistry of Terrestrial Exoplanets CSH/WP Seminar, <i>University of Bern, Switzerland</i>
2024/06	The Atmospheric Chemistry of Earth-like Exoplanets Public PhD Defence, <i>KU Leuven, Belgium</i>
2023/11	3-D circulation and ozone on synchronous exoplanets NASA GISS Astrobiology talk, <i>NASA GISS, NY (virtual)</i>
2023/10	3-D atmospheric chemistry of Earth-like exoplanets in resonant orbits EAPS Planetary Lunch Seminar, <i>MIT, Cambridge, MA, USA</i>
2023/07	The atmospheric chemistry of non-oxygenated terrestrial exoplanets LCLU Coffee Talk, <i>University of Cambridge, Cambridge, UK</i>
2022/11	3-D coupled climate-chemistry simulations of terrestrial exoplanets Astrophysics Seminar, <i>University of Exeter, Exeter, UK</i>
2022/06	Lightning-induced chemistry on tidally-locked Earth-like exoplanets Met Office Seminar, <i>UK Met Office, Exeter, UK</i>
2022/05	Lightning-induced chemistry on tidally-locked Earth-like exoplanets Yuk Lunch Seminar, <i>California Institute of Technology, CA, USA</i>
2022/05	Lightning-induced chemistry on tidally-locked Earth-like exoplanets

2020/06	Astrophysics Seminar, <i>University of California Irvine, CA, USA</i> Chemical trends in hot Jupiter atmospheres Seminar Exoplanets Group, <i>SRON, Utrecht, Netherlands</i>
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TALKS AND POSTERS

2026/07	Hydrocarbon shielding and prebiotic chemistry in exoplanet atmospheres Contributed talk: Origins, <i>Paris, France</i>
2026/06	Hydrocarbon shielding and prebiotic chemistry in exoplanet atmospheres Virtual ExoCoffee talk: MPIA, <i>Heidelberg, Germany</i>
2026/01	Hydrocarbon shielding and prebiotic chemistry in exoplanet atmospheres Contributed talk: Rocky Worlds IV, <i>Groningen, Netherlands</i>
2025/11	Observing 4D effects in the atmospheric chemistry of rocky exoplanets with LIFE Contributed talk: Science and Technology for LIFE, <i>Barcelona, Spain</i>
2025/07	Large Interferometer for Exoplanets (LIFE): characterizing the mid-infrared thermal emission of terrestrial exoplanets Contributed talk: BEACON25, <i>Reykjavik, Iceland</i>
2025/07	The pathways to prebiotic compounds in exoplanet atmospheres Poster: BEACON25, <i>Reykjavik, Iceland</i>
2025/04	Towards predicting lightning and transient luminous events in exoplanetary atmospheres Contributed talk: EGU25, <i>Vienna, Austria</i>
2025/04	The pathways to prebiotic compounds in exoplanet atmospheres Contributed talk: EGU25, <i>Vienna, Austria</i>
2024/10	Investigating the Pathways to Prebiotic Chemistry on Exoplanets Poster: Swiss Habitability and Origins of Life, <i>Lausanne, Switzerland</i>
2024/10	The Atmospheric Chemistry of Exoplanets Poster: JURA V, <i>Murten, Switzerland</i>
2023/07	3-D circulation and ozone on synchronous exoplanets Poster: Sagan Workshop, <i>Pasadena, USA</i>
2024/08	Habitable environments and 3D atmospheric chemistry on rocky exoplanets in spin-orbit resonances Contributed talk: Unique 2024, <i>Copenhagen, Denmark</i>
2024/01	Observability of 3-D atmospheric dynamics and chemistry of rocky exoplanets in 1:1 and 3:2 spin-orbit resonances Contributed talk: Rocky Worlds III, <i>Zürich, Switzerland</i>
2023/08	3-D circulation and ozone on synchronous exoplanets Contributed talk: UKEXOM23, <i>London, UK</i>
2023/07	3-D circulation and ozone on synchronous exoplanets Poster: Sagan Workshop, <i>Pasadena, USA</i>
2023/06	3-D circulation and ozone on synchronous exoplanets Poster: Exoclimates VI, <i>Exeter, UK</i>
2023/04	Stratospheric dayside-to-nightside circulation and nightside ozone maxima on tidally-locked exoplanets Contributed talk: EGU23, <i>Vienna, Austria</i>
2022/09	Orbital effects on 3-D atmospheric chemistry of Earth-like exoplanets Contributed talk: UK Exoplanet Meeting, <i>Edinburgh, UK</i>
2022/07	Lightning chemistry on tidally-locked exoplanets Contributed talk: Rocky Worlds II, <i>Oxford, UK</i>

2022/05	Lightning chemistry on tidally-locked exoplanets Poster: Exoplanets IV, <i>Las Vegas, Nevada</i>
2021/12	Lightning chemistry on tidally-locked exoplanets Poster: AGU Fall Meeting 2021 (virtual)
2021/07	Chromium hydride on WASP-31b: using HST and JWST Poster: EAS Meeting 2021 (virtual)
2021/04	Lightning-induced chemistry on Habitable Zone Exoplanets Contributed talk: Scottish Exoplanet and Brown Dwarf Meeting (virtual)
2020/12	Lightning-induced chemistry on Exoplanets Contributed talk: Global Change Symposium, <i>Edinburgh (virtual)</i>
2019/07	The Habitability of Exoplanets Contributed talk: PEPSci meeting, <i>Groningen, NL</i>

OUTREACH, SERVICE, AND WORKSHOPS

2025-Now	Co-organiser CSH+ Lunch, Center for Space and Habitability, Bern
2025-Now	JWST External Reviewer, Exoplanet Atmospheres and Habitability
2025-Now	Nomination Committee CSH Fellowships, University of Bern
2025/09	Outreach exhibit on Exoplanetary Lightning, Night of Science, Bern
2025/09	Organising committee CSH retreat
2025-Now	Member of Planetary Habitability Initiative, COPL, ETH Zürich
2025-Now	Organiser of CSH Exoplanet group meetings
2025-Now	CSH Colloquium Speaker Committee, University of Bern
2025-Now	Nomination Committee Professors in Physics, University of Bern
2025/01	Two-day workshop on Academic Leadership, University of Bern
2024-Now	PlanetS member, Swiss National Centre of Competence in Research
2023-Now	Referee for Scientific Reports, MNRAS, PSJ, A&A, Fundamental Research
2022-2024	Organiser of Exoburgh group meetings
2022-2024	Organising committee CHAMELEON ESR retreats
2022-2023	Teacher training in Belgium on exoplanet clouds and lightning
2022/09	Local Organising Committee: UK Exoplanet Meeting, Edinburgh
2019-2020	Student editor at NTvN (Dutch magazine of Physics)
2019-2020	Organising committee member for Astronomy on Tap Groningen
2019-2020	Volunteer at Blaauw Observatory Groningen
2019/05	Observing run at Isaac Newton Telescope, La Palma

ADDITIONAL SKILLS

LANGUAGE PROFICIENCY:	Native: Dutch & Frisian
	Fluent: English
	Advanced: German
	Intermediate: Spanish
	Basic: Scottish Gaelic
PROGRAMMING SKILLS:	Python, Fortran, R