Curriculum Vitae of Patrick Barth

Contact

Address University of St Andrews

School of Physics and Astronomy

North Haugh

KY16 9SS St Andrews

UK

Email pb94@st-andrews.ac.uk

Work experience

Since 2019 Postgraduate Researcher

University of St Andrews, School for Physics and Astronomy & School for Earth

and Environmental Sciences, UK

St Andrews Centre for Exoplanet Science

Feb. - July 2017 Student Research Assistant

Max Planck Institute for Astronomy, Heidelberg, Germany

Education

Since 2019	PhD in Astronomy
	University of St Andrews, School for Physics and Astronomy & School for Earth
	and Environmental Sciences, UK
	St Andrews Centre for Exoplanet Science
	Supervisor: Dr. Christiane Helling & Dr. Eva Stüeken
2017 - 2018	International Student
	University of Washington, Seattle, United States of America
2017 - 2019	Master of Science in Physics (2-year program)

Final Grade: 1.1 (very good), University of Heidelberg, Department of Physics and

Astronomy, Germany

2013 - 2017 Bachelor of Science in Physics

Final grade: 1.7 (good), University of Heidelberg, Department of Physics and As-

tronomy, Germany

2013 Abitur

Final grade: 1.1 (very good), Karl-Friedrich-Gymnasium Mannheim, Germany

Awards

2017 - 2018 Baden-Württemberg-Stipendium

Scholarship for distinguished students studying abroad

Publications

- Barth, P. et al., Magma Ocean Evolution of the TRAPPIST-1 planets, submitted to Astrobiology
- Barnes, R., et al., incl. Barth, P., 2020, VPLanet: The Virtual Planet Simulator, PASP 132 024502
- Carone, L., Baeyens, R., Mollière, P., Barth, P., et al., Equatorial anti-rotating day side wind flow in WASP-43b elicited by deep wind jets?, submitted to MNRAS. https://arxiv.org/abs/1904.13334.

Talks

18 Dec 2019	"Magma Ocean Model for Terrestrial (Exo)Planets"
	PSF-Coffee, MPIA, Heidelberg, Germany
27 March 2019	"Coupled Atmosphere-Interior Model for Terrestrial Planets - Applica-
	tion to Early Earth"
	General Meeting SPP 1833 Habitable Earth, DFG, Cologne, Germany
30 April 2017	"Zirkulation mit Wolkenbildung in planetaren Atmosphären"
	(G)Astro-Seminar, jDPG, Bad Kreuznach, Germany
11 Jan. 2017	"Large-Scale Circulation with Cloud Formation in Planetary Atmo-
	spheres"
	PSF-Coffee, MPIA, Heidelberg, Germany

Posters

15-20 Sept. 2019	"Desiccation of the TRAPPIST-1 Planets During Their Magma Ocean
	Phase"
	EPSC-DPS Joint Meeting, Geneva, Switzerland (presented by Ludmila Carone)
24-28 June 2019	"Desiccation of the TRAPPIST-1 Planets During Their Magma Ocean
	Phase"
	Astrobiology Science Conference, Seattle, WA, USA (presented by Rory Barnes)
24-28 June 2019	"Desiccation of the TRAPPIST-1 Planets During Their Magma Ocean
	Phase"
	"Star-planet interaction" workshop, Ringberg, Germany (presented by Ludmila
	Carone)

Outreach

Since 2019	Mobile Planetarium
	University of St. Andrews School for Physics and Astronomy

Programming Skills

• Intermediate: Python, C

• Basics: Fortran

Languages

• Native language: German

• Fluent: English

• Basics: Spanish, French

Volunteer Experience

	University of St Andrews Liberal Democrats
Since 2020	Treasurer
	SaintsLGBT+, University of St Andrews Student Association
Since 2019	Postgraduate Officer
	Hector-Seminar Alumni Association
Since 2019	Vice President
2015 - 2019	Secretary
2013 - 2019	Election Worker in Mannheim, Germany