

## Didier (Patrick) Queloz, FRS

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### HIGHLIGHTS

Didier Queloz is at the origin of the "exoplanet revolution" in astrophysics when in 1995 during his PhD with his supervisor they announced the first discovery of a giant planet orbiting another star, outside the solar system. This seminal discovery has spawned a revolution in astronomy and kick started the field of exoplanet research. Since then Didier Queloz scientific contributions have essentially been to make progress in detection and measurement capabilities of exoplanet systems with the goal to retrieve information on their physical structure to better understand their formation and evolution by comparison with our solar system. He was awarded the 2019 Nobel Prize in Physics in recognition of his work.

More recently he is directing his activity to the detection of Earth like planets and Universal life. In the course of his career he developed astronomical equipments, new observational approaches and detection algorithms. He participated and conducted programs leading to the detection of hundred planets, include breakthrough results. He participated to numerous documentaries movies, articles TV and radio interviews to share excitement and promote interest for science in general and particularly topics about exoplanets and life in the Universe.

### CURRENT POSITIONS

Jacksonian Professorship of Natural Philosophy, University of Cambridge, UK  
Professor of Physics ETH-Z, Switzerland (part time)  
Fellow of Trinity College, Cambridge, UK (Title D, non-teaching)  
Fellow of the Royal Society, UK

### AWARDS

Science quotation (1995) (1995)  
*"Discovery of the first extra-solar planet as one of the 10 most important discovery of the year"*  
Vacheron Constantin prize "best PhD Science Faculty of U. Geneva" (1996)  
Balzers prize, Swiss Physical Society (1996) (1996)  
*"the discovery of the planet orbiting the star 51Peg"*  
IAU "Medal of Honor" Bioastronomy, IAU commission 51 (shared with Mayor) (1996)  
Geneva city prize, Science category (2011)  
*"Prix de la ville de Genève 2011"* (shared with M. Mayor, S. Udry)  
BBVA Foundation Frontiers of Knowledge Awards (2011)  
Science category, (shared with M. Mayor)  
Honorary degrees Queen University Belfast, UK (2012)  
Royal Society Wolfson Research Merit Awards, UK (2013)  
Thomson Reuters Citation Laureate: Physics. (2013)  
Wolf Physics prize 2017 (shared with M. Mayor) (2017)  
Physics Nobel Prize 2019 (shared with J. Peebles & M. Mayor) (2019)  
Listed in "10 extraordinary Nature papers" (2019)  
Medal "Genève reconnaissance", Geneva (2019)  
Doctor Honoris Causa of Aix Marseille University , F (2020)  
AeroSuisse Award (shared with W. Benz & CHEOPS team) (2020)  
Chevalier de l'orde National de Légion d'honneur (2022)

### EDUCATION

Msc, Physics, Geneva University, Switzerland (1990)

	Astronomy and Astrophysics Certificate, Geneva University, Switzerland	(1992)
	PhD, Astrophysics, Geneva University, Switzerland	(1995)
<b>PREVIOUS POSITIONS</b>	Post-doc, Geneva University	(1996 – 1997)
	Distinguished visiting scientist, Jet Propulsion Lab, CA, USA	(1998 – 1999)
	Research associate (“Maitre Assistant”), Geneva University	(2000 – 2002)
	Faculty (“MER”), Geneva University	(2003 – 2007)
	Professor Associate, Geneva University	(2008 – 2013)
	Professor (1966 Professorship), University of Cambridge	(2013 – 2020)
	Professor (full) , Geneva University	(2014 – 2021)
<b>TEACHING EXPERIENCE</b>	Teaching assistant of Prof Michel Mayor	(1990 – 1997)
	Invited Professor at Cargese School of Astronomy (France)	(1998)
	Physics 1458 (“ <i>Student seminar and research work</i> ”), U. Geneva	(2001 – 2008)
	Physics 1094 (“ <i>High angular resolution in astronomy</i> ”), U. Geneva	(2003 – 2007)
	Invited Professor at the Nordic Winter School on Astrobiology, Finland	(2006)
	Invited Professor at 11th Vatican Summer School “ <i>Observational Astronomy and Astrophysics</i> ”	(2007)
	Public lecture “ <i>General astronomy</i> ”, U. Geneva	(2008 – 2012)
	part III, minor, “ <i>Exoplanets and Planetary Systems</i> ”, U. Cambridge	(since 2014)
	Supervision, Trinity College, U. Cambridge, UK	(2015–2019)
<b>MEMBERSHIPS, COMMITTEES, BOARDS</b>	IAU “radial velocity commission”	(1997–2006)
	VLT Science demonstration team (ESO)	(2002–2006)
	Swiss representative of the Interferometric Initiative EII-Science board	(2002–2010)
	Advisory board of Planetary and Space Science journal	(2002–2007)
	Co-I of EPICS team for the SIM mission	(2002–2009)
	PI of PRIMA astrometric planet search program	(2003–2013)
	Co-I of planet core program of the CoRoT satellite	(2003–2012)
	ASTRONET Science Vision Working Group (SVWG)	(2006–2008)
	ELT Science & Engineering Working Group (ESO)	(2006–2012)
	LCOGT Science Advisory Committee	(2006–2012)
	Committee member of IAU “exoplanet commission”	(2008–2015)
	Chair of symposium IAU 253 “transiting planets”, Boston, US	(2008)
	Swiss space committee	(2005–2015)
	ESO Science and Technical Committee (STC)	(2009–2013)
	E-ELT Project science team	(2012–2014)
	Chair of the first UK Exoplanet conference (UKEXOM), Cambridge	(2014)
	Chair SOC Cheops Workshops	(2013–2016)
	Chair SOC, 31th IAP colloquium on extrasolar planets, Paris	(2015)
	Chair, scientific council of OSU Pytheas, France	(2015–2017)
	IAU Steering committee, div F (Planetary Systems and Bioastronomy)	(2015–2018)
	Investigator Simonds Foundation SCOL	(2015–2023)
	Chair Science Team CHEOPS space mission (ESA-CH)	(2015–2023)
	Co-PI Speculoos consortium	(since 2016)
	PI consortium “Terra Hunting” (HARPS-3)	(since 2016)
	Chair SOC, Exoplanet-II conference, Cambridge	(2018)
	Chair SOC Exoplanet II Conf.	(2018)
	Panel member STFC “Future Leaders”	(2018-2019)
	Chair of Marcel Benoit foundation (prize)	(since 2023)
<b>PhD, MPhil supervision</b>	Didier Queloz supervised 10 PhD and 2 MPhil students to completion: B. Demory	

(2009), A. Triaud (2011), J. Sahlmann (2012), M. Lendl (2014), M. Neveu (2016), M. Guenther (2018) and A. Van Boetticher (MPhil 2018) A. Deline (2019), E- M. Ahrer (MPhil 2019), R. Hall (2020), C. Murray (2022), J. Briegal (2022)

Currently has 4 graduate students: P. Pedersen, (due 2023), G. Smith (due 2023), Amy Tuson (due 2023), Claudia Jano-Munoz (due 2026)

In 2014, the MERAC Prize was awarded for the Best Doctoral Thesis in Observational Astrophysics to PhD student Amaury Triaud for his thesis work on *"the discovery and characterisation of many new exoplanetary systems"*.

**Postdoc, research associate** Didier Queloz supervised research associates: Dr Segransan (2001-2009) Dr E. Di Folco (2005-2007), Dr F. Pont (2005-2008), Dr R. Berhend (2005-2006), Dr M. Gillon (2006- 2009), Dr Chazelas (2008-2010), Dr D. Ehrenreich (2013-2015), Dr B. Demory (2014-2016), Dr S. Thompson (since 2014), Dr E. Gillen (2015-2021), Dr Delrez (2016-2018), Dr P. Rimmer (2017-2018), Dr V. Rajpaul (FRAS, 2018-2020), Dr A. Mortier (2018-2022), Dr M. Alsari (since 2020).

**PUBLICATIONS METRIC**

	<b>Refereed</b>
Publications	472
Total citation	24500
h-index	77

ref SAO/NASA ADS  
[google scholar publications](#)

<b>"NAMED" LECTURES</b>	Sackley Lecture, Leiden, NL	2008
	Larmor Lecture, Cambridge, UK	2017
	Barka Distinguish Lecture, Liverpool, UK	2019
	Nobel Lecture, Stockholme, S	2019
	Scott Lecture, Cambridge, UK	2019
	Inaugural Subra Suresh Distinguished lecture series, Chennai, India	2022
	Einstein Lectures, Bern, CH	2022