

## Keith Douglas Horne

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**Birth:** 11 July 1955      **Citizenship:** US and UK

### Degrees and Positions:

94-... Professor of Astronomy, University of St.Andrews, Scotland, UK  
93-94 Associate Professor, Institute of Astronomy, University of Utrecht, NL  
85-93 Assistant → Tenured Associate Astronomer, STScI, Baltimore, US  
83-85 SERC PDRA, Institute of Astronomy, Cambridge, UK  
83 Ph.D., Astronomy, California Institute of Technology, US  
77 B.A., Mathematics and Physics, Pomona College, US

### Awards and distinctions :

17 NASA Group Achievement Award (Kepler 2 Campaign 9 team)  
13 Royal Society Leverhulme Trust Senior Research Fellowship  
10 RAS Group Achievement Award for Astronomy (SuperWASP team)  
07 Erskine Visiting Professorship, University of Canterbury, NZ  
06 Gauss Professorship, Göttingen Academy of Sciences  
05 Emilios Harlaftis Lecture, Hellenic Astronomical Society  
05 David Elder Lecture, Glasgow  
04 Herschell Medal, Royal Astronomical Society  
00-01 Beatrice Tinsley Visiting Professorship, University of Texas  
99-03 PPARC Senior Research Fellowship  
98 Fellow of The Royal Society of Edinburgh  
90 AURA/STScI Science Achievement Award

**Research Interests:** Active galactic nuclei, echo mapping, robotic telescopes, conformal gravity, dirac solitons, extra-solar planets, gravitational lensing, optimal data analysis, accretion disks, black holes, cosmology, cataclysmic variables, x-ray binaries, doppler tomography, eclipse mapping, magnetic accretion, virtual reality.

### Referees:

Prof. D.N.C. Lin, Department of Astronomy Lick Observatory, University of California, Santa Cruz, CA 95064, US (lin@ucolick.org)

Prof. B. M. Peterson, Department of Astronomy, Ohio State University, Columbus, OH 43210, US (peterson@astronomy.ohio-state.edu)

Prof. J. E. Pringle, Institute of Astronomy, Madingley Road, Cambridge, CB3 0HA, UK (jep@ast.cam.ac.uk)

Prof. M. Livio, Space Telescope Science Institute, Baltimore, MD 21218, US (mlivio@stsci.edu)

Prof. E. L. Robinson, Department of Astronomy, University of Texas, Austin, TX 78712, US (elr@astro.as.utexas.edu)

**Research Grants:**

15-18	£1320K	Co-I	STFC Consolidated Grant: Astronomy at St Andrews 2015-18
14-18	\$4.0M	Co-I	Qatar Foundation : Qatar Exoplanet Survey
13	£49K	PI	Royal Society Leverhulme Trust Senior Research Fellowship
12	£45K	PI	STFC: AGN Echo Mapping and Mineral Clouds in Alien Atmospheres
12-15	£1425K	PI	STFC Consolidated Grant: Astrophysics in St Andrews: 2012-15
11-14	\$1140K	PI	Qatar Foundation QNRF: Robotic Microlens Planet Survey
10-16	£2800K	PI	SUPA-II: Planet Hunter (part of larger SUPA-II bid).
09-12	£2589K	CoI	STFC Rolling Grant: Astrophysics in St.Andrews/SUPA
06-09	£965K	CoI	STFC Rolling Grant: Astrophysics at St.Andrews 2006-09
04-06	£600K	CoI	PPARC : RoboNet 1.0 Microlens Planet Search
03-04	£300K	PI	SHEFC/SRIF2 : WASP Wide Angle Search for Planets
02-06	£805K	CoI	PPARC Rolling Grant: Observational Astrophysics
00-04	£620K	PI	PPARC Rolling Grant : AstroTomography
99-03	£162K	PI	PPARC : Senior Research Fellowship
98-02	£427K	PI	PPARC Rolling Grant: Astrophysics
98-99	£10K	PI	The Royal Society : Echo Sounding of Quasars
97-98	£3K	PI	PPARC : Virtual Reality Experiences
95-97	£93K	PI	PPARC : Accretion Disk Mapping
95-97	£93K	PI	PPARC : Echo Mapping of Active Galaxies
94-96	£170K	PI	University of St.Andrews : startup
94-95	\$150K	PI	NASA : Cycle 4 HST observations
93-94	Hfl 67K	PI	University of Utrecht: computing
93-94	\$202K	PI	NASA : Cycle 3 HST observations
92-93	\$62K	PI	NASA : IUE observations
92-93	\$305K	PI	NASA : Cycle 2 HST observations
91-96	\$572K	PI	NASA : Long-Term Space Astrophysics
91-92	\$165K	PI	NASA : Cycle 1 HST observations
89-92	\$89K	PI	NASA : Accretion Disk Tomography
86	\$3K	PI	NASA : IUE observations

**Major Research Collaborations:**

16-...	NASA: Kepler 2 Campaign 9 Microlensing Science Team
14-...	LCOGT Key Project : Echo Mapping of Active Galactic Nuclei (PI)
14-...	SDSS-III Reverberation Mapping
14-...	AGNSTORM (Space Telescope and Optical Reverberation Mapping)
10-...	QES (Qatar Exoplanet Survey)
04-...	RoboNet Microlens Planet Search (PI 02-13)
02-14	PLANET (Probing Lensing Anomalies NETwork)
02-08	WASP (Wide Angle Search for Planets) Steering Group
02-04	ESA: Eddington Science Team
01-04	ESA: Eddington Planet Transit Group
99-04	NASA: KRONOS Science Team
92-02	International AGN Watch Central Organizing Committee
00-01	NASA: GEST Science Team
91-95	LAG (Lovers of Active Galaxies) Collaboration

**Professional Societies:** RSE (Royal Society of Edinburgh), IoP (Institute of Physics), RAS (Royal Astronomical Society), AAS (American Astronomical Society), EAS (European Astronomical Society), IAU (International Astronomical Union)

**Professional Committees:**

13-... Liverpool Telescope User Group  
95-... RSE Robert Cormack Bequest Committee  
95-... Physics Trust, Board of Trustees  
10-12 RSE Physics & Astronomy Sectional Committee  
04-06 PPARC UK Exoplanet Roadmap Committee  
01-06 PPARC Liverpool Telescope Advisory Committee  
04-05 SUPA Research Strategy Group, Astronomy & Space Physics Theme Leader  
01-04 PPARC Astronomy Advisory Panel  
01-03 RSE Physics & Astronomy Sectional Committee  
00-03 PATT Liverpool Telescope Time Allocation Committee (Chair)  
99-00 PPARC Research Grant Assessment Panel  
96-99 PPARC UK Gemini Steering Committee  
97-98 PASP Publications Board  
94 Netherlands Astronomy Programme Committee  
93-94 Utrecht Astronomy Research & Teaching Committees  
93-95 European HST Users Committee  
93 Hubble Fellowship Selection Committee  
91-93 STScI Science Personnel Committee  
88-93 IUE Final Archive Definition Committee  
89-92 STScI Science Computing Advisory Committee  
89-91 STScI Research Support Advisory Committee  
88 STScI Postdoc Selection Committee

**Media**

12-Jan BBC Radio 4, World Service: Cool planets abundant.  
10-Dec Global story: discovery of exoplanet Qatar-1b.  
08-Feb BBC Radio 4 Material World: Gravitational Lensing  
06-Jan Global story: discovery of 5.5 Earth-mass planet  
05-May BBC Radio 4: Exoplanets  
04-May BBC Science Radio: Microlens Planet Search  
02-Aug-08 BBC Radio 4 Material World: Exoplanets  
02-May-28 BBC World Service: Eddington (ESA Mission)  
99-Aug BBC Horizon: The Planet Hunters