

Keith Douglas Horne

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

Degrees and Positions:

23-... Emeritus Professor of Astronomy, University of St.Andrews, Scotland, UK
94-23 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.

Research Grants:

18-21	£??K	Co-I	STFC Consolidated Grant: Astrophysics at St Andrews 2018-21
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:

22-... SDSS-V Black Hole Mapper (Reverberation Mapping)
14-22 SDSS-RM (Reverberation Mapping)
20-... AGNSTORM2
14-20 AGNSTORM (Space Telescope and Optical Reverberation Mapping)
16-18 NASA: Kepler 2 Campaign 9 Microlensing Science Team
23-... LCOGT KEY PROJECT : From Disk to Dust ...
20-23 LCOGT Key Project : Intensive Disk Reverberation Mapping
18-20 LCOGT Key Project : Intensive Disk Reverberation Mapping
14-18 LCOGT Key Project : Echo Mapping of Active Galactic Nuclei (PI)
10-14 QES (Qatar Exoplanet Survey)
04-14 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), RAS (Royal Astronomical Society), AAS (American Astronomical Society), EAS (European Astronomical Society), IAU (International Astronomical Union)

Professional Committees:

95-... Physics Trust, Board of Trustees
95-22 RSE Robert Cormack Bequest Committee
13-16 Liverpool Telescope User Group
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