Dr Keith J. B. Grainge

Date of birth: 4 July 1970 *Nationality*: British

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Career:

2007–present : **Affiliated Lecturer, Cambridge University**

2007–present : **Visiting Associate in Physics, California Institute of Technology**

2005–present : **Arcminute Microkelvin Imager (AMI) Project Manager.**
Commissioning and using AMI; managing a team of 26; total project budget £2,275k; running costs £375k/year.

2004–present : **Senior Research Associate.**
Observational cosmology at Astrophysics Group, Cavendish Laboratory, Cambridge.

2004–present : **College Lecturer, Selwyn College, Cambridge.**

2002–2005 : **Very Small Array (VSA) Project Manager.**
Managing a team of 29 between three collaborating institutions; total project budget £3,000k; running costs £190k/year.

1996–2002 : **Post-Doctoral Research Associate.**
VSA project at Astrophysics Group, Cavendish Labs, Cambridge, including one year at Instituto de Astrofísica de Canarias, Tenerife.

Education:

1992–1996 : **Cavendish Astrophysics Group, Cambridge University**
Degree of Ph.D. *'Measuring the Hubble Constant via the Sunyaev–Zel'dovich Effect'*; supervisor Prof M.E. Jones.

1989–1992 : **Gonville & Caius College, Cambridge University.**
M.A. Hons. Natural Sciences (Physics); Class I.
Elected to College Scholarship.
James Arthur Ramsey Prize for Chemistry and Biology.
Elected to College Studentship.

Teaching:

2005–2008 : **Dean** at Selwyn College, Cambridge.

2004–present : **Director of Studies** in Physics at Selwyn College, Cambridge.

2001–present : **Head of Class for Undergraduate Practical.**
Part II "Waveguide" Experiment.

2000–present : **Supervisor of PhD students.**
Currently 6 students; a further 9 have successfully completed PhDs.

2000–present : **Lecturer of courses for 1st year graduates.**
"Radiation Processes", "Interferometry".

1992–present : **Undergraduate supervisor.**
Supervising courses from all four years of the Cambridge University Natural Sciences (Physics) Tripos.

Research Grants:

2006	:	**AP Rolling Grant:** Co-investigator (PPARC) Grant total: £3,980k; VSA and AMI component: £**1,818k**.
2006	:	**UK SKA Design Study:** Co-investigator (PPARC) Cambridge award: £**1,022k**.
2005	:	**SKA Design Study:** Co-investigator (EU-FP6) Cambridge award: **637k€**.
2004	:	**Clover:** Recognised researcher (PPARC) Cambridge award: £**1,845k**.
2003	:	**AP Rolling grant:** Recognised researcher (PPARC) Grant total: £4,030k; VSA and AMI component: £**2,012k**.
2001	:	**AP Rolling grant:** Recognised researcher (PPARC) Grant total: £3,297k; CMB component: £**1,782k**.
2000	:	**VSA operations grant:** Recognised researcher (PPARC) Cambridge award: £**451k**.

Organisational/Administrative experience:

2007–present	:	Member of the AP Group Strategic Review.
2006–present	:	AP Group representative at RadioNet Board Meetings.
2004–present	:	Undergraduate admissions interviewer at Selwyn college.
2004–2006	:	Secretary to Selwyn college SCR.
2001–2007	:	Outreach and Publicity officer for AP group.
2001–2003	:	Organiser of AP Group Mini-Seminars.
2001	:	On LOC for PPARC/RAS National Astronomy Meeting.
2000–present	:	Member of the Cavendish CMB Management Committee.
1998–present	:	Member of the AP Group Research Committee.
1997	:	On LOC for "Particle Physics and the Early Universe Conference".
1994	:	On LOC for "XXVIIth Young European Radio Astronomers Conference".

Work experience:

1996	:	Software development engineer for CPS Ltd, Cambridge Leading to successful patent application.
1988–1989	:	Scientific Officer at Royal Ordnance, Westcott, Bucks.

Research Interests and Projects:

Structure formation in the Universe; anisotropies in the CMB; VSA telescope; the S-Z effect; multi-frequency galaxy cluster astrophysics; CMB foregrounds; AMI telescope; CHIP telescope; CMB polarisation; CLOVER telescope; epoch of reionisation; nature of dark matter; nature of dark energy; SKA telescope.