

Richard Alexander: Curriculum Vitae

Date of Birth: 13th September 1979

Citizenship: British Citizen

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Employment

2007–present **Sterrewacht Leiden, University of Leiden**

Postdoctoral Fellow

Faculty contacts: Dr. Yuri Levin, Dr. Michiel Hogerheijde.

2005–2007 **JILA, University of Colorado**

Postdoctoral Research Associate

Faculty contacts: Prof. Mitch Begelman, Prof. Phil Armitage.

Education

2002–2005 **Institute of Astronomy, University of Cambridge**

PhD in Astrophysics.

– Thesis title: “Photoevaporation of circumstellar discs”.

– Supervisor: Dr. Cathie Clarke.

1997–2002 **University of Edinburgh**

MPhys(Astrophysics) with First Class Honours.

– Dissertation title: “Mid-infrared spectroscopy of young stellar objects and their circumstellar environment”.

– Supervisor: Dr. Mark Casali.

Teaching Experience

2009 Guest lecturer for MSc course on “Astrophysical Accretion”, Leiden University.

2008–2009 Supervisor to MSc student (Daniel Harsono), Leiden University.

2008 Member of PhD thesis defence committee, Leiden University.

2007 Invited lecturer (4 lectures) at PhD student summer school held in Ofir, Portugal.

2002–2005 Supervisor (tutor) for first-year physics at Clare College, University of Cambridge.
Total of 220 hours teaching time over 3 years.

Awards & Honours

2009 **STFC Advanced Fellowship**

2009 **Visiting Fellowship**, Isaac Newton Institute for Mathematical Sciences.

2007 **PPARC/STFC Postdoctoral Fellowship** (declined)

2002–2005 **PPARC PhD Studentship**

2002 **Emerson Prize**. Best in class, MPhys(Astrophysics), University of Edinburgh.

Skills & Experience

Computational:

- Construction of a wide variety of numerical models.
- Numerical hydrodynamics, using both fixed-grid (**ZEUS**) and SPH (**GADGET**) techniques.
- Numerical N -body modelling.
- Parallel high-performance computing, on both shared- and distributed-memory platforms.

Other:

- Peer-review referee for *Science*, *ApJ*, *ApJL*, *ApJS*, *MNRAS*, *New Astronomy Reviews*.
- 6 nights observing with *Isaac Newton Telescope*, La Palma, January 2005.
- Reduction and analysis of telescope data: *ISO (CAM-CVF)*, *HST (STIS)*, *UKIRT (CGS4)*.
- Co-I on current large projects using *Hubble* (111 orbits) and *Chandra* (1.2Ms) space telescopes. [PIs: Greg Herczeg (MPE Garching) and Leisa Townsley (Penn State).]
- Public observing sessions using on-site telescopes at IoA, Cambridge.
- Organizer of departmental seminar series, JILA, University of Colorado.

Notable Invited Talks

2008/10 Review speaker at 5th Spitzer Conference, Pasadena, USA.

2008/07 Review speaker at “Cool Stars 15”, St Andrews, UK.

2008/03 Review speaker at planet formation workshop, Pasadena, USA.

2007/06 Ringberg Castle Galactic Centre conference, Munich, Germany.

2006/07 Review speaker at “The Disc-Planet Connection”, Cambridge, UK.

2004/12 Public lecture at Institute of Astronomy, Cambridge, UK.

2004/03 39th Moriond Astrophysics Meeting, “The Young Local Universe”, La Thuile, Italy.

Visiting departmental seminars/colloquia: Yale (2/09), Amsterdam (1/09), Leicester (12/07), IoA Cambridge (11/07), UC Berkeley (8/07), Leiden (1/07), MPA Heidelberg (1/07), UC Santa Cruz (10/06), Edinburgh (8/06), IoA Cambridge (4/06).

Publication and Citation Summary

- 18 peer-reviewed papers published, in press or submitted.
- 14 first-author peer-reviewed papers since 2003.
- > 400 total citations; h -index of 13.