

CURRICULUM VITAE

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Personal: Born in Russia, 1969. Hold dual citizenship, Russia and USA.

Qualifications

- *1998* PhD at the University of Arizona, Department of Physics (specialisation – Theoretical Astrophysics).
- *1993* Equivalent of M.Sc. degree at the Department of Theoretical Physics, Moscow Institute of Engineer Physics, Russia.

Employment History

- *06/2005 – present* Lecturer B, Department of Physics and Astronomy, University of Leicester.
- *12/2001 – 06/2005* Senior (5 year post) postdoctoral researcher at the Max Planck Institute for Astrophysics, Garching by Munich, Germany.
- *12/98 - 11/2001* National Research Council Fellow, NASA/Goddard Space Flight Center, Greenbelt, MD, USA.
- *06/93 - 11/98* Graduate student, Teaching and Research Assistant, Department of Physics, University of Arizona, Tucson, USA.
- *summers 1994 & 95* Research Assistant, Los Alamos National Laboratory, Los Alamos, New Mexico, USA.

Teaching responsibilities

- Lectures for PA113: First year’s “Electricity and Magnetism”.
- 3rd year option course “Extreme Stars”, lectures.
- 3rd & 4th year student projects, small group tutorial for a first year’s group.
- Participation in the Departmental shared teaching: assessing Physics Challenge Presentations, preparing questions for Physics Challenge booklet, feedback sessions for Problem Based Learning.
- Past teaching history: Physics laboratory class instructor and a student consultant at the Department of Physics of the University of Arizona for approximately 5 years.

Research Activities

- Successful applications for grants in the UK: PPARC 5-year rolling grant application, 2005 & 2006. Pending PPARC final's approval, should provide for funding of a postdoctoral research assistant, plus the 50% FEC, travel and computing costs.
- ESO (European Southern Observatory) P79 Telescope Time Allocation. I am a part of the team, led by Prof. Reinhard Genzel (MPI, Garching, Germany) in the Large Programme of observations of the central parsecs of the Galactic Centre with ESO-VLT and ESO-APEX telescopes.
- Successful applications for grants in the US:
 - GSFC Director Discretion Fund, October 2000 (Science PI).
 - Chandra observations of Fe $K\alpha$ line in the galactic micro-quasar GRS 1915+105 (Co-I; PI is Ron Remillard, MIT), Selected August 2000.
 - 3 travel grants from the University of Arizona Student Association and Astrophysics Theory Program in 1996, 97.
- Student supervision
 - *2003–2005* Primary supervisor for Dr. J. Cuadra, who received his PhD in 2006 at MPA-Garching. Dr. J. Cuadra has now moved to a postdoc position with Prof. Mitch Begelman of JILA, University of Colorado in Boulder, Colorado, USA.
 - *2005, 2006* Supervising PhD work of Mr. Patrick Deegan and Mr. Alexander Hobbs here in Leicester.
- Key member of the Local Organising Committee for the “Growing Black holes, Accretion in a Cosmological Context” joint ESO/MPA/MPE/LMU conference held in Garching, Germany, in July 2004. Also Editor of the proceedings.
- Member of the Science Organising Committee of the year 2006 Galactic Centre Workshop held in Bad Honef, Germany, April 2006. Also Editor of the proceedings.

Other Academic Activities

- Seminars and Colloquia at Universities
 - UK, 2006: Cambridge (twice), Durham, Sussex.
 - Pre-2006, Europe and the US: Bonn, MPA-Garching, Arizona, Caltech, Santa Barbara, UC Berkeley, U of Colorado (Boulder), MIT, Harvard, IAS (Princeton), Los Alamos National Laboratory, Maryland, John Hopkins University, Leicester (in 2000), Warsaw (2000).
- invited talks at international meetings: Xian (China, 2006), CfA (Harvard, 2006), Bad Honef (Germany, 2006), Moscow (2005), Santa Barbara (USA, 2005), La Thulle (Italy, 2005), Hawaii (2003), KITP (Santa Barbara, USA, 2002), Paris (2002), Baltimore (USA, 2001), Warsaw (Poland, 2000)

Academic Distinctions

National Research Council Fellowship held in Goddard Space Flight Center, Maryland, USA (1998-2001).

Other contributions to the University

Increasing public awareness of the research done at the University. In October 2005, NASA organised a phone-in telecom to communicate the research news reported by Nayakshin & Sunyaev 2005, MNRAS, 364, L23. The release made it to many international news agencies (e.g., Reuters, BBC website, MSNBC, US, German, Russian, Chilean newspapers), as well as Leicester Mercury. The link to the NASA's Chandra press release:

http://chandra.harvard.edu/press/05_releases/press_101305.html