

Example Scientific / Technical CV

LUCY ROBERTSON

Term Address

Flat 6, McLean Hall
St Andrews
Fife
KY16 9HR

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Home Address

22 Greyfriars Terrace
Glasgow
G2 6YH

Email: ewr89@st-andrews.ac.uk

EDUCATION

2005-2010

University of St Andrews

MPhys (Hons) Astrophysics (expected 2:1)

Relevant modules include: Computational Astrophysics, Exoplanetary Science, Galaxies, Nebulae, Cosmology, Gravitational Dynamics, Observational Astrophysics, Star Formation & Plasma Astrophysics, Astronomical Data Analysis and Contemporary Astrophysics. Trained in telescope use.

2003-2005

Glasgow High School

Advanced Highers: Physics(A), Chemistry (B), Geography (B)
Highers: Physics (A), Geography (A), Chemistry (A), English (B) and Mathematics (A)
Standard Grades: 8 x (1)

RESEARCH EXPERIENCE

July-Sept.
2009

University of Manton South Carolina USA

Department of Astronomy *Visiting Research Student*

Supervisors: Professors Herbert Schefcoff & Bruno Iqritos

- Awarded the Astronomy SSC vacation award in order to participate in this project.
- Extracted key data from galaxy spectra obtained from the Shapley largely independently.
- Went beyond the project expectations and conducted in-depth analysis of observation images in order to compare results to published data and ensure accuracy.
- Responsible for independently learning to use the image reduction software package IRAF to extract this data, as well as preparing a guide on the usage of the program for the department, which it is now actively disseminating.

May-July
2008

University of St Andrews School of Physics and Astronomy

Undergraduate Research Student Supervisor: Dr. Amil Chattergee

- Developed simulations of stellar orbits under Modified Newtonian dynamics in FORTRAN.
- Programmed various simulations to relate observable quantities under different gravitational potentials (radius of orbit, angle of pericentre, and rate of change of radius with a_0).
- Used these and theoretical models to estimate the precession rate of Oort's cloud objects under Modified Newtonian Dynamics.
- During this time, also developed a basic website for the university's cosmology and dark matter group.

Include relevant modules and a summary of any honours project or dissertation you have undertaken

Give priority to detailing research/relevant work experience

Mention relevant scientific techniques in which you are trained and any specialist equipment you can use

WORK EXPERIENCE

Jun-Sept
2007

Strathclyde Science Centre, Education Assistant

- Gave tours of the centre to visitors.
- Explained how the interactive exhibits work.
- Facilitator for children's activity sessions.

Jun-Sept
2006

The New Inn, Milngarvie, Bar staff

POSITIONS OF RESPONSIBILITY

2006-present

Physics & Astronomy Student-Staff Council

Astronomy representative, Secretary

- Served as a liaison between students and professors at regular meetings to discuss issues within the department and courses.
- Responsibilities as secretary included keeping accurate minutes of each meeting, and circulating these.

2007-2009

Committee member Astrosoc

- Wrote press releases to generate student interest.
- Liaised with speakers and university services, applied for grants.
- Organised room reservations and galvanised the support of academics.

ADDITIONAL INFORMATION

IT Skills

Excellent knowledge of LaTeX, MS Office applications and internet use; very experienced in FORTRAN, IRAF; working knowledge of Mathematica, HTML, UNIX, Maple, R and Wiki use.

Languages

French (Intermediate level)

Professional Memberships

Student member of the Institute of Physics

Awards

Student-Staff council vacation study award of £500 in 2009

Other

Full, clean driving licence

INTERESTS AND ACTIVITIES

Athletics

- Training for Great North Run 2010
- Member of University of St Andrews Athletics Club

REFEREES

David Smith
Education Director
Strathclyde Science Centre
1 Argyle Street
Clydebank
Glasgow G6 9UY
Tel: 01334 764444
ds@strathscience.org.uk

Dr. Amil Chattergee
Research Fellow
University of St Andrews
School of Physics
North Haugh
St Andrews KY16 9RG
Tel: 01334 463762
ac982@st-andrews.ac.uk

In the IT skills section name any software packages, programming languages and systems in which you are proficient

Include academic awards, prizes, student membership of professional bodies and attendance at conferences

You may require two academic referees for some applications

If you have undertaken a project, it is customary to ask your research supervisor to be one of your referees