

# JAMES SILVESTER

Researcher Experienced in Data Analysis, Social Media and Science Education

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## EXPERIENCE

### Postdoctoral Researcher/Forskare

#### Uppsala University

📅 Jan 2015 - Sep 2017    📍 Sweden

- Performed detailed analysis and visualisation of scientific data using computer-based numerical techniques.
- Presented research results at international conferences and worked with colleagues internationally.
- Heavily involved in the organisation of the Cool Stars 19 Conference, hosted at UU.
- Lecturer for two undergraduate courses.

### Observatory Manager

#### Scottish Dark Sky Observatory

📅 Aug 2012 - Jan 2013    📍 Scotland

- Project managed the observatory from a late construction phase to an operational state.
- Prepared the observatory for the official opening attended by the Scottish First Minister and conducted tour of facilities with the First Minister.
- Responsible for the installation, calibration and setup of the two main observatory telescopes.
- Designed the observatory branding, created press and media information for the observatory and maintained the observatory's social media presence.

### Research Assistant

#### Queen's University & Royal Military College of Canada

📅 Sep 2004 - May 2012    📍 Canada

- Analysis of scientific data using numerical techniques for my thesis project.
- Performed observations and obtained data at multiple telescopes around the world. Publication of multiple research papers in my field of study.
- Teaching Assistant and secondary Lecturer for undergraduate courses.

### Observatory Coordinator

#### Queen's University

📅 Apr 2008 - Apr 2009    📍 Canada

- Responsible for the operations of the observatory for public tours and student labs.
- Provided technical support to the telescopes, responsible for organised tours and disseminated publicity to the press.

## ABOUT ME

A research scientist, educator and photographer (in my free time), I am looking for a new challenge and to transfer my skill-set in project management, data analysis and public engagement into a career in the private sector.

## STRENGTHS

Data Analysis    Problem Solving  
Public Engagement    Teaching  
Project Management    Content Creation  
Photography

## COMPUTING EXPERIENCE

IDL    Fortran     $\LaTeX$     HTML    Linux  
Mac OS    MS Office    Google Docs  
Social Media    SQL    Python  
Photo and Audio Editing Software    CMS  
Bash-Scripting

## LANGUAGES

English    ●●●●●

French    ●●●●●

Swedish    ●●●●●

## EDUCATION

### Ph.D. Physics

#### Queen's University, Canada

📅 2007 - 2014

### M.Sc. Physics

#### Queen's University, Canada

📅 2004 - 2007

### B.Sc. (Hons) Astrophysics

#### University of Hertfordshire, UK

📅 2000 - 2004

## EXPERIENCE CONT...

### Research Assistant / Visiting Student

#### European Southern Observatory

📅 Sep 2006 - Dec 2006

📍 Chile

- Analysed scientific data as part of a visiting 3-month ESO studentship.

### Research Assistant / Visiting Student

#### Observatoire Midi-Pyrénées

📅 Sep 2002 - Jun 2003

📍 France

- Reduced and analysed scientific data. Obtained data using the 2-meter French national telescope (Telescope Bernard Lyot).
- Observed on behalf of international collaborators. Prepared observing schedules and collaborated with local supervisor on research projects.

## OTHER EXPERIENCE

### Volunteer

#### Mangapps Railway Museum

📅 June 2013 - Dec 2014

📍 UK

- Helped with operations during weekend openings, aided the cleaning and restoration of trains and museum buildings.
- Acted as train guard and driver on public train runs.

### Sound Technician / Broadcaster (Volunteer)

#### CFRC (Queen's Campus and Community Radio Station)

📅 May 2008 - May 2009

📍 Canada

- Provided technical support for recording and broadcasting from public locations. Host of both music and spoken word shows.
- For a series of live audio productions "the magic soundbox", was the sound technician during the live performances.

### Technical / Computer Support

#### Wingham Wyatt Financial Services

📅 Summer 2002, 2003 and 2004

📍 UK

- Supported the computer system, client database, e-mail and office software. Maintained the website.
- Updated client files and liaised with policy companies for client financial updates. Supported consultants and worked closely with software providers.

## ORGANISATIONAL POSITIONS



### Cool Stars 19

Leading member of the organising committee for Cool Stars 19 conference with 500+ attendees, hosted by Uppsala University in 2016.



### Astronomdagarna 2015

Member of the organising committee for Astronomdagarna conference with 100+ attendees, held at Uppsala University in 2015.



### Canadian Space Summit Conference RMC 2009

Member of Organising Committee and technical management of presentations.



### CASCA RMC 2007

Leading member of the organising committee for the Canadian Astronomical Society Meeting with 300+ attendees, hosted by RMC in 2007.



### CFRC (Queen's Campus and Community Radio Station)

Board Member.

## TEACHING EXPERIENCE



### Uppsala University, Sweden

Classical Mechanics Tutorial Lecturer and Astrophysics Seminar Course Lecturer.



### University of Ontario Institute of Technology, Canada

Sessional Lecturer Introductory Astronomy.



### Royal Military College of Canada, Canada

Physics Tutor for students following the Aboriginal Leadership Opportunity Year course.



### Queen's University, Canada

Lab instructor, demonstrator and marker for physics and astronomy courses.

## INTERESTS

Photography

Cycling

Travel

Design

Digital media production

History

Music

Learning Swedish