

ELSIE ELGIN

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PROFILE Six years of experience in physics, astronomy, and mathematics with strong research, leadership, and design skills. Passionate about creating stimulating, informative, and accurate exhibits with the goal of inspiring and engaging visitors with science.

EDUCATION The University of Western Ontario, London, Ontario

Master of Science, Astrophysics *January 2XXX – August 2XXX*

Bachelor of Science, Hon. Spec. Astrophysics *September 2XXX – April 2XXX*

- Graduated *with distinction*
- Minor in Philosophy

SKILLS & ATTRIBUTES

Excellent verbal, written, and scientific communication & engagement skills

- Experience with scientific outreach, including giving scientific presentations to a wide range of audiences, from expert scientists to the general public and children
- Communicated scientific concepts and course goals in tutorials and laboratories for undergraduate students

Strong aptitude for leadership and management

- Collaborated on research projects with international teams of scientists
- Supervised and aided junior members of a research team
- President of the Physics & Astronomy Student Association

Superb technical and computer skills

- Proficient in Microsoft Office Suite, Adobe Photoshop CS4, and Dreamweaver
- Familiarity with computer programming; website design, creation, and maintenance; and administrating Windows and Linux operating systems

RELEVANT EXPERIENCE

The University of Western Ontario, London, Ontario

Astronomy Outreach, *January 2XXX – August 2XXX*
Open House Evenings & Science Olympics

Operated the campus observatory telescope to display celestial objects to members of the public in groups of up to 150 people; designed and supervised an astronomy event on extra-solar planets for 45 people at the local 21XX Science Olympics; organized and further developed the 21XX Science Olympics astronomy event.

Teaching Assistant *January 2XXX – August 2XXX*

Explained scientific concepts and course objectives in undergraduate physics tutorials for groups of 20 students; demonstrated physics laboratories for groups of up to 60 students; facilitated telescope use for a large astronomy class of 400 students; maintained a resource room for assistance with undergraduate physics problems; and invigilated and graded exams.

Research Assistant *May 2XXX – August 2XXX*

Conducted research on wind models for quasars as part of Master's thesis; supervised and instructed three undergraduate students as they completed summer research projects.

President, *September 2XXX - April 2XXX*

Physics & Astronomy Student Association

Managed eight executive members and a budget of \$3000; promoted student engagement by organizing social and educational activities; coordinated funding and transport for 14 delegates to the Canadian Undergraduate Physics Conference in Vancouver, BC

Summer Research Assistant *Summers 2XXX – 2XXX*

Conducted research on a variety of astrophysical problems, including star formation; analysed data from the *Chandra X-Ray Observatory*; presented posters and talks detailing research results at national and international conferences; created a website for a research group and maintained the websites of four professors.

Undergraduate Representative, *September 2XXX – April 2XXX*

Physics & Astronomy Student Association

Communicated the interests of the undergraduate population within the department of Physics & Astronomy; planned and supervised several well-received social events including tournaments and competitions.

Physics & Astronomy Representative, *September 2XXX – April 2XXX*
Science Students' Council

Acted as a liaison between the department of Physics & Astronomy and the Faculty of Science undergraduate student body; presented feedback at bi-weekly meetings.

Science “Soph” (Orientation Week Leader) *September 2XXX – April 2XXX*

Welcomed first-year science students and helped with the transition to university life; conducted tours of campus and engaged students in social activities.

Ontario Science Centre, Toronto, Ontario

Science School Student & Student Host *September 2XXX – March 2XXX*

Assisted with educational demonstrations and programs; answered visitor questions about centre displays and exhibits; taught an innovative, interactive chemistry lesson to an elementary school class; worked as a student host during Winter and March Breaks.

The Perimeter Institute for Theoretical Physics, Waterloo, Ontario

Young Physicists of Canada *Summer 2XXX*

Selected out of 400 applicants from across Canada to participate with 20 other students in a two-week summer program with the goal of exploring theoretical physics.

**AWARDS &
HONOURS**

- Teaching Assistant Award of Excellence, The University of Western Ontario, 2XXX
- NSERC Postgraduate Scholarship, 2XXX
- Ontario Graduate Scholarship, 2XXX -2XXX
- Maude Holt Kingston Gold Medal in Astrophysics 2XXX
- National Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Summer Research Award, 2XXX -2XXX
- Robert and Ruth Lumsden Scholarship in Science, 2XXX
- Dean's Honour List, The University of Western Ontario, 2XXX -2XXX
- Continuing Admissions Scholarship, The University of Western Ontario, 2XXX - 2XXX
- Governor General's Bronze Academic Medal, Pine Ridge Secondary School, 2XXX