

Alyssa M. Gilbert (née Moldowan)

Centre for Planetary Science & Exploration
The University of Western Ontario
London, Ontario, Canada N6A 5B7
(519) 661-2111 x88508
amoldow@uwo.ca

EDUCATION	<i>Doctorate of Philosophy, Astronomy</i> The University of Western Ontario London, Ontario, Canada Thesis: From Asteroids to Comets: Gas and Dust Production of the Small-Bodies in the Solar System	October 2009
	<i>Master of Science, Physics</i> University of Manitoba Winnipeg, Manitoba, Canada Thesis: The Chandra and RXTE Study of the Galactic Microquasar SS 433 and the Surrounding Nebula W50	October 2005
	<i>Bachelor of Science, Physics</i> University of Calgary Calgary, Alberta, Canada	May 2002
TEACHING & OUTREACH EXPERIENCE	<i>Outreach Coordinator</i> Centre for Planetary Science & Exploration The University of Western Ontario, London, Ontario	June 2011 - Present
	<i>Program Coordinator</i> Exploring the Stars Department of Physics & Astronomy The University of Western Ontario, London, Ontario	May 2006 - May 2009
	<i>Program Coordinator</i> Let's Talk Science The University of Western Ontario, London, Ontario University of Manitoba, Winnipeg, Manitoba	Jan. 2004 - Aug. 2009
	<i>Teaching Assistant</i> Department of Physics & Astronomy The University of Western Ontario, London, Ontario	Sept. 2005 - May 2006
	<i>Teaching Assistant</i> Department of Physics & Astronomy University of Manitoba, Winnipeg, Manitoba	Sept. 2003 - May 2005

- RESEARCH EXPERIENCE** *Postdoctoral Fellow* Feb. 2010 - Oct. 2010
 Department of Earth Sciences
 The University of Western Ontario, London, Ontario
- Postdoctoral Fellow* Sept. 2009 - Dec. 2009
 Department of Physics & Astronomy
 The University of Western Ontario, London, Ontario
- PhD Candidate* Sept. 2005 - Aug. 2009
 Department of Physics & Astronomy
 The University of Western Ontario, London, Ontario
- Masters Student* July 2003 - July 2005
 Department of Physics & Astronomy
 University of Manitoba, Winnipeg, Manitoba
- Summer Research Assistant* Apr. 2003 - July 2003
 Department of Physics & Astronomy
 University of Manitoba, Winnipeg, Manitoba
- Undergraduate Thesis Project* Sept. 2001 - Apr. 2002
 Department of Physics & Astronomy
 University of Calgary, Calgary, Alberta
- Summer Research Assistant* May 2000 - Sept. 2000
 Department of Physics & Astronomy
 University of Calgary, Calgary, Alberta
- JOURNAL ARTICLES**
- Gilbert, A.**, Wiegert, P. 2010, Updated results of a search for main-belt comets using the Canada-France-Hawaii Telescope Legacy Survey. *Icarus* 210, 998-999.
- Gilbert, A.**, Wiegert, P., Undo-Sanzana, E., Vaduvescu, O. 2009, Spectroscopic observations of new Oort cloud comet 2006 VZ13 and four other comets. *MNRAS* 401, 2399-2405.
- Gilbert, A.**, Wiegert, P. 2009, Searching for main-belt comets using the Canada-France-Hawaii Telescope Legacy Survey. *Icarus* 201, 714-718.
- Moldowan, A.**, Safi-Harb, S., Fuchs, Y., Dubner, G, 2005, A multi-wavelength study of the western lobe of W50 powered by the galactic microquasar SS 433. *AdSpR* 35, 1062-1065.
- CONFERENCE PROCEEDINGS** **Gilbert, A.**, Osinski, G. R., August, T., Mader, M. McCullugh, E., Pontefract, A., Shankar, B., Singleton, A. 2012. The continued growth of the education and outreach program at the Centre for Planetary Science and Exploration. LPSC (Houston, TX). #1626

Osinski, G., R., **Gilbert, A.**, Brown, P. 2011. Development of inquiry-based planetary science resources for Canadian schools. AGU (San Francisco, CA). #0772.

Osinski, G. R., Henry, H., **Gilbert, A.**, Brown, P. 2011. Uniting the Worlds of Research, Science Education, and Outreach: A Canadian University Perspective. IAC (Cape Town, South Africa).

Brown, P., **Gilbert, A.**, Osinski, G. R., Henry, H., Battler, M., Chanou, A., Francis, R., Mader, M., McCullough, E., Papadimos, A., Pontefrac, A., Shankar, B., Singleton, A., Thomson, L., Unrau, T. 2011. Collaborative Planetary Science Outreach Strategies: A Canadian Perspective. CASCA (London, ON).

Osinski, G. R., Henry, H., Mader, M., Thomson, L., **Gilbert, A.**, Marion, C. Papadimos, A., Brown, P. 2011. Using Planetary Sciences to raise General Science Interest. GAC-MAC (Ottawa, ON).

Gilbert, A., Buscher, J., Jedicke, J., Kulczycki, J., McCarter, D., Osinski, G. 2010. The Development of an Education & Outreach Program at the Elginfield Observatory. CASCA (Halifax, NS).

Gilbert, A., Wiegert, P. 2010. Searching for Main-Belt Comets Using the CFHT: Final Results. CASCA (Halifax, NS).

Gilbert, A., Wiegert, P. 2009. Observations of Cometary Activity using the CTIO and CFHT Legacy Survey. IAU Assembly (Rio de Janeiro, Brazil).

Gilbert, A., Campbell-Brown, M. 2009. Exploring the Stars: Astronomy Outreach at The University of Western Ontario. IAU Assembly (Rio de Janeiro, Brazil).

Moldowan, A., Wiegert, P. 2008. More results from the CFHTLS search for main-belt comets. *BAAS* 40 (Ithaca, NY) p.493.

Moldowan, A., Wiegert, P. 2008. Continuing the Search for Main Belt Comets with the CFHT Legacy Survey. *LPI* 1405 (Baltimore, MA) #8026.

Moldowan, A., Wiegert, P., Moss, A. 2007. Searching for Main Belt Comets with the CFHT Legacy Survey. *BAAS* 39 (Orlando, FL) p.525.

Moldowan, A., Campbell-Brown, M. 2007. Exploring the Stars at The University of Western Ontario. CASCA (Kingston, ON).

Moldowan, A., Campbell-Brown, M. 2006. Public Outreach at the Hume Cronyn Memorial Observatory. CASCA (Calgary, AB).

Moldowan, A., Safi-Harb, S. 2005. Chandra and RXTE Study of the Western Lobe of W50 and Galactic Microquasar SS 433. *JRASC* 99 (Montreal, QC) p.141.

Moldowan, A., Safi-Harb, S. 2004. RXTE and Chandra Study of SS433/W50. *BAAS* 36 (New Orleans, LA) p.939.

**INVITED
TALKS**

The Impostor Syndrome: We are Supposed to Feel Stupid!

Feb. 2010

Keynote Lecture

The Western Research Forum

The University of Western Ontario, London, Ontario

Answering and Asking Questions in Science & Engineering Jan. 2010
Winter Conference on Teaching
Teaching Support Centre
The University of Western Ontario, London, Ontario

Guest Lecturer: Astronomy 2022 Oct. 2009
Department of Physics & Astronomy
The University of Western Ontario, London, Ontario

From Asteroids to Comets Sept. 2009
Department of Physics & Astronomy
University of Manitoba, Winnipeg, Manitoba

The Impostor Syndrome: We are Supposed to Feel Stupid! Sept. 2009
Department of Physics & Astronomy
The University of Western Ontario, London, Ontario

Guest Lecturer: Astronomy 2201 Feb. 2008
Department of Physics & Astronomy
The University of Western Ontario, London, Ontario

Guest Lecturer: Astronomy 2022 Nov. 2007
Department of Physics & Astronomy
The University of Western Ontario, London, Ontario

CERTIFICATES *Advanced Teaching Program* June 2009
Teaching Support Centre
The University of Western Ontario, London, Ontario

SERVICE

- 2009-2011: Member of Western Conference on Science Education organizing committee (The University of Western Ontario)
- 2009-2010: Vice President of Finance, Postdoctoral Association of Western (The University of Western Ontario)
- 2009-2010: Head of Elginfield Observatory Education & Outreach steering committee
- 2004-2006: CASCA Education & Outreach graduate student representative
- 2004-2005: Outreach Committee (University of Manitoba)
- 2003-2004: Canadian Astronomical Society (CASCA) organizing committee
- 2003-2004: Selection committee for astronomy professor (University of Manitoba)
- 2003-2004: Vice President, Physics Graduate Student's Association (University of Manitoba)
- 2001-2002: Vice President of Events, Physics and Astronomy Student's Association (University of Calgary)

SKILLS & EXPERTISE

- 8+ years of coordinating science outreach programs for K-12 students and teachers
- Development of presentations, hand-on activities, and demonstrations for outreach purposes
- Organization of small- and large-scale outreach events
- Training and management of graduate student volunteers and teaching assistants
- Recruitment of teachers, schools, volunteers, and community groups
- Creating and fostering partnerships with other outreach, educational, and community groups
- Exceptional communicator who effectively conveys information verbally and in writ-

ing

- Extremely well organized and efficient, with exemplary time management skills
- Windows, Mac, and Linux operating systems, and associated programs such as Microsoft Office, OpenOffice, LaTeX, etc.
- C/C++, HTML, Wordpress, and scripting languages