**Ari J. Silburt**

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**Education**

*University of Toronto, Department of Astronomy & Astrophysics 2012-2017*

Degree: PhD Astrophysics

* Expected to complete 2017

*Mount Allison University, Department of Physics 2008-2012*

Degree: BSc, Honours Physics, Double Minor in Math and Astronomy

* Honours Thesis: “Improvement of the Compton Beam Asymmetry”, 2012.

**Work Experience**

* Teaching Assistant (2008-2015): 11 teaching assistant positions throughout undergrad/grad school in Physics and Astronomy courses. Duties include leading lectures, tutorials, help sessions, invigilation and marking.
* Planetarium Operator (2012-2015): Conducted numerous planetarium shows on a variety of topics (Exoplanets, Black Holes, Early Universe, etc.).
* Telescope Operator (2009-2014): Throughout undergrad/grad school, operated and maintained telescopes for outreach, student labs and science.
* Camp Counsellor (2008, 2012): Collaborated with team of counsellors for 6-week overnight camp, organizing/designing/executing activities, ensuring safety of campers, leadership.

**Awards**

* NSERC PGS-D Research Grant (2015-2017): *Graduate Research Award from the National Science and Engineering Research Council of Canada.*
* NSERC CGS-M Research Grant (2013-2014): *Graduate Research Award from the National Science and Engineering Research Council of Canada.*
* Dr. R. N. Varma Memorial Award (2012): *Graduating Physics student with highest GPA.*
* Donald G. Macgregor Scholarship (2011): *3rd year Physics student with highest GPA.*
* Matthews Prize (2011): *Top mark in “Electricity & Magnetism” course for given Physics year.*
* NSERC USRA Grants (2010,2011): *Undergraduate Summer Research Awards from the National Science and Engineering Research Council of Canada.*
* Dean’s List (2008-2012): *Recognition for academic excellence throughout undergraduate career.*
* Harrison McCain Scholarship (2008-2012): *Undergraduate Entrance Scholarship over 4 years for academic excellence demonstrated in High School.*

**Publications**

* A Statistical Reconstruction of the Planet Population Around Kepler Solar-Type Stars,

Silburt, A, Gaidos, E, Wu, Y. In press, the Astrophysical Journal

**Selected Conferences and Talks**

* Silburt, A. (2015) – *Sifting Through the Noise: A Re-calculation of the Occurrence of Earth-Sized Planets around Kepler Stars*. Emerging Researchers in Exoplanet Science Symposium (ERESS), University Park, PA, USA.
* Silburt, A. (2015) – *Interstellar: The Science Behind the Movie.* University of Toronto Astronomy Public Tours, Toronto, ON, Canada.
* Gaidos, E., Silburt, A., Wu, Y. (2014) - *Occurrence Doesn't Just Happen: Revisiting the Frequency of Earth-Size Planets around Kepler Stars*. Towards Other Earths II: The Star-Planet Connection, Porto, Portugal. \*Talk given by Eric Gaidos on my behalf.
* Silburt, A. (2014) – *“Extracting the Radius Distribution using noisy Kepler Data”*. CITA Blackboard Talk, University of Toronto, Toronto, ON, Canada
* Silburt, A. (2013) – *Distant Earths*. University of Toronto Astronomy Public Tours, Toronto, ON, Canada.
* Silburt, A. (2012) - *Improving the Beam Asymmetries for Compton Scattering from the 2008 Data*. Atlantic Undergraduate Physics and Astronomy Conference (AUPAC), Halifax, NS, Canada.
* Silburt, A. (2011) - *Extracting the Cross Sections and Beam Asymmetries from the 08 Data*. Institut für Kernphysik, Universität Mainz, Mainz, Germany.
* Silburt, A. (2011) - *Improving the Beam Asymmetries of the Proton*. Mount Allison Summer Undergraduate Research Fair (SURF), Sackville, NB, Canada.

**Interests/Extracurricular**

* Self-taught mixer, producer, composer. Examples can be found here: <https://www.youtube.com/user/ElectricBlue2011/videos>
* Involved in a professional swing dance troupe - <http://www.thatswing.ca/>
* Performed in ‘Rock-n-Roll’ music video: <http://www.youtube.com/watch?v=q02TJx_hnuc>
* Sports – hockey (2014 UofT intramural finalists), basketball, baseball, lacrosse.

**References**

* Available upon request.