

CURRICULUM VITAE

Joseph B. Wilson

Citizenship: Canadian

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Education:

- B. Ed: Physics and Mathematics, Intermediate/Senior level, June 2005.
- Hon. B.Sc. with High Distinction: Majors in Astronomy and Linguistic & Semiotic Anthropology at the University of Toronto, May 2002.

Awards & Honours:

- Premier's Award for Teaching Excellence, Nominee, 2009
- University of Toronto Vari Scholarship, 2004/2005.
- H. S. Robertson Award in Astronomy, June 2001.
- Gordon C. Cressy Student Leadership Award, New College, May 2001.
- T. Eta Award Of Excellence presented by Science Outreach for teaching distinction, Summer 2000.

Work Experience:

Feb 2010 – Present

- *Executive Director, The Treehouse Group.* Planning and coordinating events such as the Treehouse Talks monthly series, Toronto ideaXchange, and the Grown-Up Science Fair. Offering consulting to educational groups, corporations and NGOs on innovation in the workplace through cross-disciplinary professional development. www.treehousegroup.org

Feb 2010 – Present

- *Education Advisor, MaRS Discovery District.* Developing educational programs, curriculum and planning workshops for MaRS clients and through Social Innovation Generation. Contributed writing content for the MaRS blog and the in-house magazine *Convergence*.
MaRS CEO Ilse Treurnicht, itreurnicht@marsdd.com

Sept. 2005 – Feb 2010

- *Toronto District School Board, East York Collegiate Institute.* Teaching senior physics, junior science, mathematics, credit recovery and english. Focused on student success, equity, and social justice.
Supervisor: Principal Karen Hume, 416-396-2355

Mar 2008 – Present

- *National Research Council and the Science Teacher's Association of Ontario.* Writing curriculum-linked content for a resource project sponsored by the National Research Council to help teachers teach the new (2009) astronomy curriculum through on-line and traditional technologies and interactive activities.
Supervisor: Project Manager Malisa Marzberg, m.mezenberg@oecta.on.ca

Jan. 2004 – Present

- *NOW Magazine, Spacing Magazine, Globe & Mail, Toronto Star.* Freelance writing on various topics related to science, technology, politics and culture, as well as contributing non-fiction book reviews.
Editor: Entertainment Editor Susan G. Cole; susanc@nowtoronto.com

April 2005 – July 2005

- *Rose Center for Earth and Space Science, American Museum of Natural History.* Research and writing educational programs, planetarium programs, working with the media concerning the Hubble

Space Telescope's 15th anniversary, developing exhibits, and researching museum content.

Supervisor: Curator, Griffith Observatory, Laura Danly
ldanly@dmns.org

July 2004 – Dec. 2004 • *Royal Ontario Museum, Instructor.* Designed and presented curriculum for the *ROM Summer Club* and *ROM Saturday Morning Club* for kids age 11-14 on the topics of engineering/architecture and studies of ancient civilizations.
Supervisor: Susan Reckseidler; susann@rom.on.ca

May 2002 – July 2003 • *Ontario Science Centre, Researcher/Programmer, Astronomy & Space Sciences, and Host.* Responsible for exhibit development & research, media appearances, public interaction, content and upkeep of the on-site planetarium, budget management, writing copy for exhibits and articles, public programming, workshop and event planning.
Supervisor: Duck-Soo Chang; duck@osc.on.ca

Sept 2001 – Dec. 2002 • *Ontario Science Centre, Science Educator.* Responsible for delivery and design of school workshops on various scientific topics from Grades JK-6, Starlab planetarium programs for students Grade 1-9, and Challenger Learning Centre Flight Missions from Grade 6-12.
Supervisor: Leslie Leader; leslie.leader@livingarts.on.ca

Skills:

- Teaching and educational program development. A strong history in developing and delivering exhibits, workshops for school children, public program development and professional development workshops.
- Event planning for conferences, lectures, workshops, and exhibitions, often collaborating with outside organizations.
- Editing and writing skills. Able to organize research results and write clearly and concisely. Experience writing essays, articles, analyzing media, and analysing language use, editing journals, articles and papers.
- Presentation and verbal communication skills – explaining concepts clearly to children, colleagues, and the general population.
- Computer skills: UNIX, IRAF, Ghostview, LaTeX, Visual Basic (VBA), MS Word, data analysis and graphing in MS Excel, autocorrelation algorithms (Astrolab), Fourier analysis, wavelet analysis.
- Research skills on the Internet and in the library. Utilisation of HIPPARCOS catalogue, Celestia 2000, SIMBAD, NASA ADC Abstract Server, Robarts Library government and newspaper archives, and general literature searches.

Sample Publications

(for a full archive go to
www.josephwilson.ca)

- J. B. Wilson, "Collaborating Across Disciplines," *Open Source Business Review*, July 2009, www.osbr.com
- J. Wilson, "Come on in, the water's fine, right?" *Globe and Mail*, August 9, 2008, Globe T.O.
- J. Wilson, "Browse and get smarter," *NOW Magazine*, Jan 08 - Jan 14, 2009
- J. Wilson, "Blinding them with 'science'" *Toronto Star*, October 13, 2007, ID p. 6

- J. Wilson “Light Pollution: Big City, Bright Lights” in *Spacing* Issue 3, Winter 2004/2005.
- D. Hamilton, J. Wilson, & S. Taylor, “Pluto: Planet or Not” in *Our Brainz Random Musings from the Science Centre’s Resident Experts*. Spring 2003.
- J. B. Wilson & W. L. Robinson, Eds. “Synthesis: Issues of Identity in Science & the Arts” in *Sign:aliquid stat pro aliquo* (Victoria College Semiotics Journal). ISSN: 1138—160X, Vol. 2 Iss. 2, Summer 2001.
- J. B. Wilson et al. “Autocorrelation Analysis of Hipparcos Photometry of Short-Period A and B Stars”, in *Observational Aspects of Pulsating B and A Stars*, C. Sterken & D. Kurtz Eds., San Francisco: Astronomical Society of the Pacific, 2002.
- J. R. Percy, J. B. Wilson, & G. Henry "Long-Term VRI Photometry of Pulsating Red Giants", *Bulletin of the AAS*, Vol. 32, #4, p. 1479
- J. R. Percy & J. B. Wilson, Eds. *Amateur-Professional Partnerships in Astronomy*, San Francisco: Astronomical Society of the Pacific, Vol. 220
- J. R. Percy & J. B. Wilson, "Another Search for Maia Variable Stars", *Publications of the Astronomical Society of the Pacific*, 112: 846-851.
- J. B. Wilson et al. “Pulsating Red Giants: New Results”, in *Radial and Nonradial Pulsations as Probes of Stellar Physics*, C. Aerts et al. Ed., San Francisco: Astronomical Society of the Pacific, 2002.

Presentations:

- J. Wilson, “Summer Institute for Astronomy Teaching” hosted by the Ontario Teacher’s Federation and the Science Teachers Association of Ontario, McLennan Physical Labs, U of T, Aug. 17-19, 2009.
- J. B. Wilson et al. “Teaching the New Astronomy Curriculum,” Canadian Astronomical Society Educators Meeting, U of T, May 2009.
- J. B. Wilson, “Covering Science in the Media,” Latornell Conservation Symposium, Nottawasaga Inn, October 2008.
- J. B. Wilson. “The Laughing Squid: Irony and Self-Reflexivity in Successful Science Communication.” Ontario Science Centre, Science Dept. Meeting, June 2003.
- J. B. Wilson, “Simple Interactivity in Biotechnology Exhibits.” Ontario Science Centre, BioFest 2003 corporate representatives, May 2003.
- J. B. Wilson, "Long Term APT VRI Photometry of Small Amplitude Red Variables: Preliminary Results." Oral paper presented for the Stellar Discussion Group, Department of Astronomy, U of T, October 1999.
- A. G. Bakos, D. Kolin, J. B. Wilson, "Partnerships in Research and Education." Oral and poster paper presented at "Amateur-Professional Partnerships in Astronomical Research and Education" Toronto, July 1999.
- J.B.Wilson, "Do The Maia Stars Exist? The HIPPARCOS Satellite and Variable Stars." Poster paper presented at The Undergraduate Research Fair, Victoria College, U of T, March 1999.

- Various appearances: CityTV, Space Network, CBC, CTV, Talk TV. Explaining astronomical phenomena for the public from the Ontario Science Centre

Extra-Curricular:

- Jan 2009 – Present
- Member of the Communications Committee for the International Year of Astronomy, dedicated to celebrating 2009 as the anniversary of Galileo's accomplishments in astronomy.
Web: www.iya2009.com and www.astronomy2009.ca
- May. 2007 - Present
- Co-founder and Ground Member of the Treehouse Group, a collective of Toronto-area thinkers who facilitate the exchange of ideas by bringing together people from diverse backgrounds for ideaXchange conferences, consulting contracts, and monthly brunches.
Co-founder: John Brodhead, John.Brodhead@ontario.ca
www.treehousegroup.org
- Feb 2006 – Present
- Founder, MemoryArchive Canada. A companion project to accompany Marshall Poe's MemoryArchive project, a site devoted to capturing and recording the memories of citizens all around the world, to be cross-referenced and archived on the internet. Debuted at Toronto's Humanitas Festival, Summer 2006.
MemoryArchive founder: Marshall Poe, mpoe@theatlantic.com
www.memoryarchive.org
- Feb 2000 – June 2001
- Co-founder and Executive Council Member of MEDiA: Monitoring Educational Development in Academia, recognized U of T Student Group. Organized a multidisciplinary undergraduate conference *Synthesis: Issues of Identity in Science and the Arts*. Hart House, 18 November, 2000. International author Reza Baraheni presented as keynote speaker on "Language and Identity."
Co-founder: W. Lucas Robinson, wluucas.robinson@utoronto.ca

Hobbies/Interests: Music, Travel, Films, Camping, Soccer, Chess.

Personal References:

Dr. William Garland

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Chair, Department of
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Professor John R. Percy

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Susan G. Cole

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