

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:

- 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:

Sept. 2005 – Present

- *Toronto District School Board.* Teaching senior physics, junior science, mathematics, English, focusing on student success, equity, and social justice. Supervisor: Principle Karen Hume; 416-396-2355

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

Jan. 2004 – Present

- *NOW Magazine.* Researching and writing regular articles on technology and culture, as well as contributing non-fiction book reviews. Supervisor: Susan G. Cole; susanc@nowtoronto.com

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

Jan. 2003 – July 2003

- *Ontario Science Centre, Researcher/Programmer, Astronomy & Space Sciences.* Responsible for exhibit development & research, media appearances, public interaction, the content and upkeep of the on-site planetarium, budget management, writing copy for exhibits and articles, public programming and event planning. Supervisor: Patrick Tevlin; patrickt@osc.on.ca

May 2002 – Dec. 2002

- *Ontario Science Centre, Host.* Interacted with visitors by giving demos, tours, running exhibits, planning, researching, and designing programs and events, dealing with emergencies and security issues. 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:

- Scientific exhibit and public program development. 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, analysing 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.

Publications

- Wilson, J. “Light Pollution: Big City, Bright Lights” in *Spacing* Issue 3, Winter 2004/2005.
- Hamilton, D., Wilson J., & Taylor, S. “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
- A. G. Bakos, D. Kolin, J. B. Wilson, "Partnerships in Research and Education from the Student's Perspective" in (above) p. 312—314
- 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. 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, "The Language of Science: Metaphor and Analogy in Western Science." Ontario Science Centre Science School, May 2002.
- 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, University of Toronto, 15 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, 5-7 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, 4 March 1999.
- Various appearances: CityTV, Space Network, CBC, CTV, Talk TV. Explaining astronomical phenomena for the lay audience from Ontario Science Centre "Star Parties" - events for the public to view the sky through telescopes and interact with the community.

Extra-Curricular:

May. 1998 - Present

- Drummer for jazz, rock and funk bands including current project The Gardens Faithful. Recorded several albums of original material with various producers and musicians.
Latest producer: Dan P. Chen
E-mail: shaolunproductions@hotmail.ca

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
E-mail: wlucas.robinson@utoronto.ca

Hobbies/Interests:

Music, Reading and Writing, Films, Camping.

Personal References:

Dr. William Garland

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Department of Engineering Physics.
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