# Randle Taylor

curriculum vitae

	Skills
Languages Web Dev Analysis	Proficient with Python and JavaScript. Familiar with C, Matlab, PHP, Java, and Fortran Django, jQuery, Knockout.js, Bootstrap, AJAX, HTML/CSS
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Databases	PostgreSQL_SQLServer
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	Education
2004–2006	<ul> <li>M. Sc. Medical Physics Carleton University Awarded With Distinction.</li> <li>THESIS TITLE Monte Carlo Simulations for Brachytherapy</li> <li>SUPERVISOR David W. O. Rogers</li> </ul>
1999–2004	B. Sc. Honours Co-op Physics University of Waterloo Deans Honour List.
	Experience
2012–present	<ul> <li>Open Source Project Leader QATRACK+ http://qatrackplus.com/.</li> <li>Designed and developed a Django web application to manage radiation therapy QA data.</li> <li>QATrack+ was open sourced in 2013 and is now used in 10+ cancer centres worldwide.</li> <li>Technology used: Python, Django, JavaScript, CSS, Bootstrap, jQuery, JSON, Windows Server 2008, IIS7, SQLServer, Linux, PostgreSQL, git.</li> <li>QATrack+ is developed to be compatabile with legacy (IE8+) and modern web browsers.</li> </ul>
2011–2014	Medical Physics Associate THE OTTAWA HOSPITAL Ottawa.
	<ul> <li>Designed and developed modern web applications and GUI tools to improve the efficiency of the cancer centres quality assurance program.</li> <li>Wrote and deployed numerous web applications to replace legacy spread sheet systems.</li> <li>Technology used: Python, Django, JavaScript, CSS, Bootstrap 2 &amp; 3, Knockout.js, jQuery, JSON, Windows Server 2008, IIS7, SQLServer 2008, git.</li> <li>Improved co-workers efficiency by automating routine, tedious and error prone tasks.</li> <li>Administrator of our departments Windows Server 2008 and Windows Server 2005 servers.</li> <li>Wrote policies and procedures for clinical workflows.</li> <li>Gave presentations at a number of conferences, bosnitals and a Puthon user group.</li> </ul>
2008-2010	Software Developer SELE EMPLOYED Durbarn II K & Waterloo ON
2000-2010	<ul> <li>Wrote and marketed software independently and for clients.</li> <li>Developed and marketed a commercial Monte Carlo simulator for poker using C &amp; Python. Sold to World Poker Tour Bootcamp in 2012.</li> <li>Developed Orbis, an application for teaching university students at the University of Waterloo &amp; University of Guelph about Huckel molecular orbital theory. Orbis was written in Python using Numpy, Scipy, matplotlib &amp; wxPython.</li> </ul>

- 2006–2008 Medical Physics Research Assistant CARLETON UNIVERSITY Ottawa, ON.
   Performed academic research duties for The Carleton Laboratory for Radiotherapy Physics.
   Development of scientific software using Fortran & Python.
  - Researched, wrote and published scientific papers (http://randlet.com/papers-talks/).

#### Co-op positions

- 2003 Medical Imaging Research Assistant Robarts Research Institute London, ON.
- 2001 Math Tutor Humber College Toronto, ON.

### Interests

**Tech** Ottawa Python Authors Group, volunteer for Girl Develop It Ottawa. **Other** Motorcycling, skiing, traveling.

# Invited Talks & Conference Presentations

- 2014 **Filling the gaps in commercial clinical software** *R. E. Taylor* Ottawa Medical Physics Institue National Research Council, Ottawa, Canada.
- 2014 SalLS: Open Source Software for Incident Learning *R. E. Taylor and C. Angers* Canadian Organization of Medical Physics Winter School Quebec City, Canada.
- 2013 **Python at The Ottawa Hospital Cancer Centre** *R. E. Taylor* Ottawa Python Authors Group Monthly Meeting Ottawa, Canada.
- 2013 Leveraging Software To Improve Quality In The Clinic *R. E. Taylor* McGill Medical Physics Department, Montreal General Hospital Montreal, Canada.
- 2013 **QATrack+:** A free and open source tool for radiotherapy quality assurance *R. E. Taylor* Odette Cancer Centre, Sunnybrook Hospital Toronto, Canada.
- 2013 **QATrack+:** A free and open source tool for radiotherapy quality assurance *R. E. Taylor, C. Angers, D. La Russa, R. Studinski, D. Mason, B. Clark* Canadian Organization of Medical Physics Winter School Mt. Tremblant, Canada.
- 2007 An EGSnrc generated TG-43 dosimetry parameter database *R. E. Taylor and D. W. O. Rogers* Monte Carlo Workshop McGill University, Montreal, Canada.
- 2006 Monte Carlo Modeling of the Xoft AXXENT X-Ray Source R. E. Taylor, G. Yegin, and D. W. O. Rogers AAPM 48th Annual Meeting Orlando, USA.

## Publications

- 2008 EGSnrc Monte Carlo calculated dosimetry parameters for 192Ir and 169Yb brachytherapy sources *R. E. P. Taylor, D. W. O. Rogers* Med. Phys. 35 4933–4944.
- 2008 More accurate fitting of 1251 and 103Pd radial dose functions *R. E. P. Taylor, D. W. O. Rogers* Med. Phys. 35 4242–4250.
- 2008 An EGSnrc Monte Carlo-calculated database of TG-43 parameters *R. E. P. Taylor, D. W. O. Rogers* Med. Phys. 35 4228–4241.
- 2007 Benchmarking BrachyDose: voxel-based EGSnrc Monte Carlo calculations of TG-43 dosimetry parameters *R. E. P. Taylor, G. Yegin, D. W. O. Rogers* Med. Phys. 34 445-457.

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