

## BARRY POINTON

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### EDUCATION

University of British Columbia, Vancouver, BC <b>Ph.D. in Physics</b> Dissertation: Model-Based Randoms Correction for 3D Positron Emission Tomography.	2007
Regent College <b>Diploma of Christian Studies</b>	1996
Simon Fraser University, Burnaby, BC <b>M.Sc. in Physics</b> Thesis: The $^{20}\text{Ne}(n,p)^{20}\text{F}$ Reaction at $E_n=198$ MeV Using a New High Pressure Gas Target.	1989
University of British Columbia, Vancouver, BC <b>B.Sc. in Physics</b>	1985

### TEACHING EXPERIENCE

Trinity Western University, Langley, BC <b>Instructor – PHYS 310 Modern Physics</b>	Spring 2013
Trinity Western University, Langley, BC <b>Instructor – PHYS 215 Stellar and Galactic Astronomy</b>	Spring 2014
British Columbia Institute of Technology, Burnaby, BC <b>Instructor – PHYS 1273, 2274, 3274, 4274 (Physics for Nuclear Medicine) and various first year labs</b> Continuing delivery and development of lectures and laboratory. Extensive unique lecture notes and lab manuals were developed.	1990 –present
British Columbia Institute of Technology, Burnaby, BC <b>Course Developer and Instructor – PHYS 5510 (PET with Dedicated and Dual head Coincidence Imaging Cameras)</b> Developed new course including 350+ page course manual for distance education, part-time studies.	2000 - 2012
Canadian Association of Medical Radiation Technologists (CAMRT), Ottawa, ON <b>Course Developer and Instructor – SPECT: Physics and Instrumentation for Technologists</b> Developed new course including 350+ page book (ISBN 1-896796-32)-X for distance education, part-time studies.	1997–2006

### RELATED EXPERIENCE

UBC/TRIUMF PET Program, UBC, Vancouver, BC <b>Scientific Research Assistant and Ph.D. Student</b> Research and development in PET medical imaging: physics-based quantitative correction methods, PET tomograph operation for experiment and radioisotope production. This included Monte Carlo computer simulations and developing software for image analysis using MATLAB and other software.	1989 – 1990 and 1999 – 2007
TRIUMF, UBC, Vancouver, BC <b>Research Assistant</b> As part of M.Sc. thesis work: Involved in organizing and running a complex nuclear physics experiment (TRIUMF E474, 1988), design, construction and operation of wire chamber and scintillator detectors and high pressure gas systems, acquisition and analysis of nuclear physics data.	1987 – 1989

Physics Department, University of British Columbia, Vancouver, BC

**Technical Assistant**

Involved in technical work around Physics department including developing physics demonstrations

1984– 1985 (Summers)

Faraday Institute for Science and Religion, St Edmunds College, Cambridge, July 17-23, 2011.

**Attendee**

Participated in the 2008 and 2011 Summer Courses. I am now listed in the BCIT Expert Database as a media contact for issues of Science and Religion (among other things).

2008, 2011

PUBLICATIONS AND PAPERS (SELECTED)

*“Nuclear Medicine Imaging Principles from Mathcad Tutorials”*

J Nucl Med. 2009; 50 (Supplement 2):801. Presented at the Society of Nuclear Medicine, Annual General Meeting, Toronto.

2009

*“Current Issues in Science and Religion”*

BCIT Professional Development Day.

2009

*“Model-based Randoms Correction for 3-D Dedicated PET”*

B. Pointon, E. Vandervoort and V. Sossi. M. J Nucl Med. 2006; 47 (Supplement 1):383P. Presented at the Society of Nuclear Medicine, Annual General Meeting, San Diego, June 2006.

2006

*“The Principles Behind Technological Advances in Quantitative SPECT Imaging.”*

Invited Talk, Canadian Society of Nuclear Medicine Annual Scientific Meeting, Vancouver, May 2005.

2001

*“NEMA NU 2-2000+ Performance Measurements on an ADC MCD Camera”*

V.Sossi, B.Pointon, P.Cohen P, et al. IEEE Trans Nuc Sci 48: 1518-1523 (2001).

2001

*“Effect of Shielding the Radioactivity outside the field on Image Quality in a Dual Head Coincidence Camera”*

V.Sossi, B.W.Pointon, P.Cohen, R.R.Johnson, T.J.Ruth. IEEE Trans Nuc Sci 47 1561 (2000).

2000

*“Gamow-Teller Strength from the  $^{20}\text{Ne}(n,p)^{20}\text{F}$  Reaction at  $E_n = 198 \text{ MeV}$ .”*

B.W.Pointon, O.Häusser, R.Henderson, et al., *Phys Rev C* **44** 2430 (1991).

1991

MEMBERSHIPS

Canadian Scientific and Christian Affiliation  
Royal Astronomical Society of Canada

PERSONAL INFORMATION

Canadian Citizenship  
Married with two children