

CURRICULUM VITAE

Pekka K. Sinervo

A. Biographical Information

1. Personal

Personal Data:

Pekka K. Sinervo
Born May 24, 1958
Canadian citizen

Home Address:

21 Burkebrook Place, RL04
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2. Degrees

Degree	:	Ph.D. Elementary Particle Physics
Thesis	:	Study of Strange Meson Spectrum as Observed in the Reaction $K^-p \rightarrow K^0\pi^+\pi^-n$ at 11 GeV/c
Advisor	:	D. W. G. S. Leith
Institution	:	Stanford University
Date	:	May 1986
Degree	:	B.Sc. (4 year) Mathematics and Physics
Institution	:	University of Toronto
Date	:	May 1980

3. Employment

- Senior Vice-President, Research, Canadian Institute for Advanced Research (May 2009 - Oct 2016)
- Rosi and Max Varon Visiting Professor, Weizmann Institute of Science, Rehovot, Israel (Sep 2008 - Apr 2009)
- Vice-Provost, First-Entry Programs, University of Toronto (Nov 2006 - Feb 2008)
- Dean, Faculty of Arts and Science, University of Toronto (Jan 2004 - Feb 2008)
- Interim Dean, Faculty of Arts and Science, University of Toronto (May 2003 - Dec 2003)

- Vice-Dean, Academic, Faculty of Arts and Science, University of Toronto (Jan 2003 - Apr 2003)
- Vice-Dean, Graduate Education and Research, Faculty of Arts and Science, University of Toronto (Sep 2000 - Dec 2002)
- Chair, Department of Physics, University of Toronto (Jul 1997 - Aug 2000)
- Visiting Scientist, Lawrence Berkeley National Laboratory, Berkeley, CA (Jan 1997 - Jun 1997)
- Professor, Department of Physics, University of Toronto (Jul 1995 - present)
- Associate Professor of Physics, Department of Physics, University of Toronto (Jul 1990 - Jun 1995) (tenure awarded in May 1993)
- Visiting Scientist, Fermi National Accelerator Laboratory, Batavia, IL, Feb 1994 - Jul 1994)
- Assistant Professor, Department of Physics, University of Pennsylvania (Jul 1988 - Jun 1990)
- Postdoctoral Researcher, Department of Physics, University of Pennsylvania (Jun 1986 - Jun 1988)

4. Honours

Feb 2012	Fellow, American Association for the Advancement of Science
Jan 2008	Acenberg Award, Rotman Research Institute
Jun 2007	Patron of the Society, Canadian Astronomical Society
Jul 2004	Senior Fellow, Massey College, University of Toronto
May 2004	Fellow, American Physical Society
Nov 1999	Fellow, Royal Society of Canada
Nov 1995	Rutherford Memorial Medal in Physics, Royal Society of Canada
Feb 1995	Outstanding Teaching Award, Faculty of Arts and Science, University of Toronto
Jun 1980	Reuben Wells Leonard Scholarship for the Physical Sciences University College, University of Toronto
Mar 1980	NSERC Postgraduate Scholarship (renewed 1982) Natural Sciences and Engineering Research Council
Mar 1980	NSERC 1967 Science Scholarship (declined) Natural Sciences and Engineering Research Council
Mar 1979	Harry M. Boxen Memorial Scholarship University College, University of Toronto
Apr 1976	C.L. Burton Scholarship University College, University of Toronto

5. Professional Affiliations

- Member, Canadian Association of Physicists
- Member, Institute of Particle Physics
- Member and Fellow, American Association for the Advancement of Science
- Member and Fellow, American Physical Society
- Fellow, Royal Society of Canada

B. Academic History

6. a. Research Activities

My research interests are to understand the basic building blocks of our world and the forces that hold them together. I am a member of the ATLAS collaboration at the CERN Large Hadron Collider (LHC) in Geneva, Switzerland, where we are studying 13 TeV proton-proton collisions. I am particularly interested in studies of the top quark, the most massive of the fundamental building blocks predicted by the “Standard Model” of high energy physics and the one most recently discovered. Having published conclusive evidence of its existence in 1995, I am still involved in top quark studies with the ATLAS experiment. My students and I have developed techniques for making innovative measurements of top quark properties. I am also involved in the development of advanced statistical techniques applied to the analysis of particle physics data.

I was involved in the CDF experiment from 1986 to 2012, which studied high-energy proton-antiproton collisions produced at the Fermilab Tevatron Collider. I had a lead role in the 1995 discovery to the top quark and in subsequent measurements of its properties.

My research interests prior to 1986 focused on the study of strange mesons, which formed the topic of my Ph.D. dissertation. I studied the orbitally and radially excited states of the K^* meson, as this system provided us with the cleanest experimental view of the spectroscopy of a light quark-antiquark state.

During the period 1978 through 1980, I participated in the first measurements of the lifetimes of charmed hadrons as a member of a University of Toronto research group.

My secondary research activity is the development of advanced detectors and computational systems for the particle physics experiments. My group designed parts of the data collection systems for the SDC detector, a device that was intended to search for the Higgs boson at the Superconducting Super Collider (SSC). I have collaborated on the development of a Grid computing model for the ATLAS experiment, and have developed high-speed electronics and data acquisition systems.

I have held various leadership and administrative roles in my field, serving most recently as chair of the Board of Directors of SNOLAB, an underground laboratory located in Sudbury, Ontario dedicated to the search for dark matter.

6. b. Research Awards

I hold the following research awards:

- An NSERC Project Grant supporting the Canadian effort on the ATLAS experiment. The University of Toronto portion of this \$5.760M award in 2015-16 is \$886,000. This is held jointly with Profs. P. Krieger, R. S. Orr (PI), P. Savard, R. Teuscher and W. Trischuk.
- A Canada Foundation for Innovation award of \$15M from the Innovation Fund for the SCINET high performance computing facility, matched by the a contribution of \$15M from the Ontario Research Foundation. I am a co-investigator with an interest in using this facility for Tier II computing for the ATLAS experiment.

C. Scholarly and Professional Work

7. Refereed Publications (total of 1031)

7.A. Most Relevant Publications

The following publications are my most relevant publications, following the guidelines developed by the Commission of Particles and Fields (C11) of the International Union of Pure and Applied Physics, September 2008. I have either been a primary author of the publication, or made significant specific contributions to the work therein, either as one of the working co-authors or through specific intellectual contributions to the study.

1. T. A. Aaltonen *et al.* [CDF Collaboration] (primary author), “*Studies of high-transverse momentum jet substructure and top quarks produced in 1.96 TeV proton-antiproton collisions*” arXiv:1407.3484 [hep-ex], 10.1103/PhysRevD.91.032006
Phys. Rev. D **91**, no. 3, 032006 (2015)
2. G. Aad *et al.* [ATLAS Collaboration] (secondary author), “*Performance of jet substructure techniques for large- R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector*” arXiv:1306.4945 [hep-ex], 10.1007/JHEP09(2013)076
JHEP **1309**, 076 (2013).
3. G. Aad *et al.* [ATLAS Collaboration] (primary author), “*Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7$ TeV*” arXiv:1211.2202 [hep-ex], 10.1007/JHEP01(2013)116,
JHEP **1301**, 116 (2013).

4. G. Aad *et al.* [ATLAS Collaboration] (primary author), “*ATLAS measurements of the properties of jets for boosted particle searches*”
arXiv:1206.5369 [hep-ex], 10.1103/PhysRevD.86.072006,
Phys. Rev. D **86**, 072006 (2012).
5. G. Aad *et al.* [ATLAS Collaboration] (secondary author), “*Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment*”
arXiv:1203.4606 [hep-ex], 10.1007/JHEP05(2012)128,
JHEP **1205**, 128 (2012).
6. A. Altheimer, S. Arora, L. Asquith, G. Brooijmans, J. Butterworth, M. Campanelli, B. Chapeau and A. E. Cholakian *et al.* (secondary author), “*Jet Substructure at the Tevatron and LHC: New results, new tools, new benchmarks*”
arXiv:1201.0008 [hep-ph], 10.1088/0954-3899/39/6/063001,
J. Phys. G **39**, 063001 (2012).
7. T. Aaltonen *et al.* [CDF Collaboration] (primary author), “*Study of Substructure of High Transverse Momentum Jets Produced in Proton-Antiproton Collisions at $\sqrt{s} = 1.96$ TeV*”,
arXiv:1106.5952 [hep-ex], 10.1103/PhysRevD.85.091101,
Phys. Rev. D **85**, 091101 (2012)
8. G. Aad *et al.* [ATLAS Collaboration] (primary author), “*Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states with ATLAS*”
Phys. Lett. B **707**, 459 (2012) arXiv:1108.3699 [hep-ex]
9. G. Aad *et al.* [ATLAS Collaboration] (primary author), “*Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at $\sqrt{s} = 7$ TeV Measured with the ATLAS Detector,*”
New J. Phys. **13**, 053044 (2011) [arXiv:1008.2461 [hep-ex]].
10. R. Alon, E. Duchovni, G. Perez, A. P. Pranko, P. K. Sinervo (primary author), “*A Data-Driven Method of Pile-Up Correction for the Substructure of Massive Jets,*”
Phys. Rev. D **84**, 114025 (2011) [arXiv:1101.3002 [hep-ph]].
11. A. Abdesselam, E. B. Kuutmann, U. Bitenc, G. Brooijmans, J. Butterworth, P. Bruckman de Renstrom, D. Buarque Franzosi, R. Buckingham *et al.* (secondary author), “*Boosted Objects: A Probe of Beyond the Standard Model Physics,*”
Eur. Phys. J. C **71**, 1661 (2011) [arXiv:1012.5412 [hep-ph]].
12. T. Aaltonen *et al.* [CDF Collaboration] (secondary author), “*Measurement of $t\bar{t}$ Spin Correlation in $p\bar{p}$ Collisions Using the CDF II Detector at the Tevatron,*”
Phys. Rev. **D83**, 031104 (2011). [arXiv:1012.3093 [hep-ex]].
13. G. Aad *et al.* [ATLAS Collaboration] (primary author), “*Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC,*”
Phys. Rev. Lett. **105**, 161801 (2010). [arXiv:1008.2461 [hep-ex]].

14. T. Aaltonen *et al.* (secondary author), “Measurement of the Fraction of $t\bar{t}$ Production via Gluon-Gluon Fusion in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. D **79**, 031101 (2009) [arXiv:0807.4262 [hep-ex]].
15. T. Aaltonen *et al.* (primary author), “First Measurement of the Fraction of Top Quark Pair Production Through Gluon-Gluon Fusion,” Phys. Rev. D **78**, 111101 (2008). [arXiv:0712.3273 [hep-ex]].
16. A. Abulencia *et al.* (primary author), “Precise Measurement of the Top Quark Mass in the Lepton + Jets Topology at CDF II,” Phys. Rev. Lett. **99**, 182002 (2007).
17. A. Abulencia *et al.* (primary author), “Top Quark Mass Measurement Using the Template Method in the Lepton + Jets Channel at CDF II,” Phys. Rev. D **73**, 032003 (2006).
18. A. Abulencia *et al.* (primary author), “Precision Top Quark Mass Measurement in the Lepton + Jets Topology in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **96**, 022004 (2006).
19. Search for a W' Boson Decaying to a Top and Bottom Quark Pair in 1.8 TeV $p\bar{p}$ Collisions, D. Acosta *et al.* (primary author), Phys. Rev. Lett. **90**, 081802 (2003).
20. *Signal Significance in Particle Physics*, P. K. Sinervo, hep-ex/0208005 (August 2002). Published in the Proceedings of the Conference on Advanced Statistical Techniques in Particle Physics, Durham England, Mar 16-22 (2002).
21. Search for Single Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV, D. Acosta *et al.* (secondary author), Phys. Rev. D **65**, 091102 (2002).
22. Measurement of the Top Quark P_T Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV, T. Affolder *et al.* (primary author), Phys. Rev. Lett. **87**, 102001 (2001).
23. Search for a W' Boson via the Decay Mode $W' \rightarrow \mu\nu_\mu$ in 1.8-TeV $p\bar{p}$ Collisions, F. Abe *et al.* (primary author), Phys. Rev. Lett. **84**, 5716-5721 (2000).
24. Measurement of b Quark Fragmentation Fractions in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV, T. Affolder *et al.* (primary author), Phys. Rev. Lett. **84**, 1663-1668 (2000).
25. Measurement of b Quark Fragmentation Fractions in the Production of Strange and Light B Mesons in Proton Anti-Proton Collisions at $\sqrt{s} = 1.8$ TeV, F. Abe *et al.* (primary author), Phys. Rev. D. **60**, 092005 (1999).
26. *CVD Diamond Pixel Detectors for LHC Experiments*, R. Wedenig *et al.* (secondary author), Nucl. Phys. Proc. Suppl. **78**, 497-504 (1999).
27. *The First Bump Bonded Pixel Detectors on CVD Diamond*, W. Adam *et al.* (secondary author), Nucl. Instrum. Methods **A43**, 326-335 (1999).

28. *Observation of $B^+ \rightarrow \psi(2S)K^+$ and $B^0 \rightarrow \psi(2S)K^{*0}(892)$ Decays and Measurements of B Meson Branching Fractions into J/ψ and $\psi(2S)$ Final States,*
F. Abe *et al.* (primary author), Phys. Rev. D **58**, 072001 (1998).
29. *Ratios of Bottom Meson Branching Fractions Involving J/ψ Mesons and Determination of b Quark Fragmentation Fractions ,* F. Abe *et al.* (primary author), Phys. Rev. D **54**, 6596-6609 (1996).
30. *Observation of Top Quark Production in $p\bar{p}$ Collisions with the Collider Detector at Fermilab,*
F. Abe *et al.* (primary author), Phys. Rev. Lett. **74**, 2626-2631 (1995).
31. *Evidence for top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (primary author), Phys. Rev. **D50**, 2966-3026 (1994).
32. *Evidence for Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (primary author), Phys. Rev. Lett. **73**, 225-231 (1994).
33. *Limit on the Top Quark Mass from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (primary author), Phys. Rev. **D45**, 3921-3948 (1992).
34. *Performance and System Flexibility of the CDF Hardware Event Builder,*
T. M. Shaw, K. Schurecht and P. K. Sinervo, FERMILAB-CONF-91-314 (Nov 1991). To be published in the proceedings of the IEEE Nuclear Science Symposium, Sante Fe, NM (Nov 1991).
35. *Top Quark Search in the Electron + Jets Channel in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV,* F. Abe *et al.* (primary author), Phys. Rev. **D43**, 664-686 (1991).
36. *A Search for the Top Quark in the Reaction $p\bar{p} \rightarrow$ Electron + Jets at $\sqrt{s} = 1.8$ TeV,*
F. Abe *et al.* (primary author), Phys. Rev. Lett. **64**, 192-196 (1990).
37. *Fast Data Acquisition with the CDF Event Builder,*
P. K. Sinervo *et al.* (primary author), IEEE Trans. Nucl. Sci. **36**, 440-445 (1989).
38. *Evidence for a $J^{PC} = 4^{++}$ State at ~ 2.2 GeV/c² From K^-p Interactions at 11 GeV/c,*
D. Aston *et al.* (joint author), Phys. Lett. **215B**, 199-204 (1988).
39. *The CDF Event Builder,*
A.W.Booth *et al.* (primary author), IEEE Trans. Nucl. Sci. **NS-34**, 790-795 (1987).
40. *The Organization and Maintenance of the CDF Offline Code on IBM VM and DEC VAX/VMS Operating Systems,*
K. Chadwick, R. Hollebeek and P.K. Sinervo (primary author), Comput. Phys. Commun. **45**, 409-415 (1987).
41. *The Strange Meson Resonances Observed in the Reaction $K^-p \rightarrow \bar{K}^0\pi + \pi^-n$ at 11 GeV/c,*
D. Aston *et al.* (primary author), Nucl. Phys. **B292**, 693-713 (1987).

42. *Observation of the Leading K^* L-Excitation Series from $J^P = 1^-$ Through 5^- in the Reaction $K^-p \rightarrow K^-\pi pn$ at 11 GeV/c,*
D. Aston *et al.* (joint author), Phys. Lett. **180B**, 308-312 (1986).
43. *A Study of the Strange Meson Spectrum as Observed in the Reaction $K^-p \rightarrow \bar{K}^0\pi + \pi^-n$ at 11 GeV/c,* P.K. Sinervo, SLAC report 299, 1-233 (May 1986). Ph.D. Thesis.
44. *The SLAC Three-Body Partial Wave Analysis System,*
D. Aston, T. Lasinski and P.K. Sinervo (primary author), SLAC report 222, 1-66 (Oct 1985).
45. *The 3081/E Emulator: A Processor for use in On-line and Off-line Arrays,*
P.M. Ferran *et al.* (secondary author), SLAC preprint 3753, contributed to Conf. on Computing in High Energy Physics, Amsterdam, Netherlands, Jun 25-28, 1985.
46. *Partial Wave Analysis of the $\bar{K}^0\pi + \pi^-$ System Produced in K^-p Interactions at 11 GeV/c,*
D. Aston *et al.* (primary author), Nucl. Phys. **B247**, 261-292 (1984).
47. *Observation of Two Non-leading Strangeness-one Vector Mesons,*
D. Aston *et al.* (primary author), Phys. Lett. **149B**, 258-262 (1984).
48. *Measurement of the D^+ , F^+ and Λ_c^+ Charmed Particle Lifetimes,*
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **45**, 1053-1056 (1980).
49. *Measurement of the D^0 Lifetime,*
N. Ushida *et al.* (joint author), Phys. Rev. Lett. **45**, 1049-1052 (1980).

7.B. Complete Bibliography of Refereed Publications

N.B. Most significant publications are indicated with an asterisk.

1. *“Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”*
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1502.04478 [hep-ex]
10.1016/j.physletb.2015.03.054
Phys. Lett. B **744**, 163 (2015)
2. *“Search for pair-produced long-lived neutral particles decaying in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s} = 8$ TeV”*
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1501.04020 [hep-ex]
10.1016/j.physletb.2015.02.015
Phys. Lett. B **743**, 15 (2015)

3. “Search for Higgs and Z boson decays to $J/\psi\gamma$ and $\Upsilon(nS)\gamma$ with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1501.03276 [hep-ex]
10.1103/PhysRevLett.114.121801
Phys. Rev. Lett. **114**, no. 12, 121801 (2015)
4. “Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm\nu$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.6663 [hep-ex]
10.1007/JHEP03(2015)088
JHEP **1503**, 088 (2015)
5. “Observation and measurements of the production of prompt and non-prompt J/ψ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.6428 [hep-ex]
6. “Measurement of spin correlation in top-antitop quark events and search for top squark pair production in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.4742 [hep-ex]
10.1103/PhysRevLett.114.142001
Phys. Rev. Lett. **114**, no. 14, 142001 (2015)
7. “Measurement of the transverse polarization of Λ and $\bar{\Lambda}$ hyperons produced in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.1692 [hep-ex]
10.1103/PhysRevD.91.032004
Phys. Rev. D **91**, no. 3, 032004 (2015)
8. “Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.0237 [hep-ex]
10.1007/JHEP03(2015)041
JHEP **1503**, 041 (2015)
9. “Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1411.6795 [hep-ex]
10.1007/JHEP01(2015)068
JHEP **1501**, 068 (2015)

10. “*Measurements of the nuclear modification factor for jets in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1411.2357 [hep-ex]
10.1103/PhysRevLett.114.072302
Phys. Rev. Lett. **114**, no. 7, 072302 (2015)
11. “*Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1411.1559 [hep-ex]
10.1103/PhysRevD.91.012008
Phys. Rev. D **91**, no. 1, 012008 (2015)
12. “*Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb^{-1} of data with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1410.8857 [hep-ex]
10.1007/JHEP02(2015)153
JHEP **1502**, 153 (2015)
13. “*Measurement of the $WW + WZ$ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at $\sqrt{s} = 7$ TeV*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1410.7238 [hep-ex]
10.1007/JHEP01(2015)049
JHEP **1501**, 049 (2015)
14. “*Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1410.5404 [hep-ex]
10.1140/epjc/s10052-014-3233-4
Eur. Phys. J. C **75**, no. 2, 79 (2015)
15. “*Search for the X_b and other hidden-beauty states in the $\pi^+\pi^-\Upsilon(1S)$ channel at ATLAS*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1410.4409 [hep-ex]
10.1016/j.physletb.2014.11.055
Phys. Lett. B **740**, 199 (2015)
16. “*Search for $W' \rightarrow t\bar{b}$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 8$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].

- arXiv:1410.4103 [hep-ex]
10.1016/j.physletb.2015.02.051
Phys. Lett. B **743**, 235 (2015)
17. “Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1410.4031 [hep-ex]
10.1140/epjc/s10052-015-3306-z
Eur. Phys. J. C **75**, no. 2, 92 (2015)
 18. “Search for s -channel single top-quark production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1410.0647 [hep-ex]
10.1016/j.physletb.2014.11.042
Phys. Lett. B **740**, 118 (2015)
 19. “Measurements of the W production cross sections in association with jets with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.8639 [hep-ex]
10.1140/epjc/s10052-015-3262-7
Eur. Phys. J. C **75**, no. 2, 82 (2015)
 20. “Search for the $b\bar{b}$ decay of the Standard Model Higgs boson in associated $(W/Z)H$ production with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.6212 [hep-ex]
10.1007/JHEP01(2015)069
JHEP **1501**, 069 (2015)
 21. “Search for resonant diboson production in the $\ell\ell q\bar{q}$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.6190 [hep-ex]
10.1140/epjc/s10052-015-3261-8
Eur. Phys. J. C **75**, no. 2, 69 (2015)
 22. “Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.6064 [hep-ex]
10.1007/JHEP11(2014)056
JHEP **1411**, 056 (2014)

23. “*Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.5542 [hep-ex]
10.1103/PhysRevD.90.112005
Phys. Rev. D **90**, no. 11, 112005 (2014)
24. “*Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.5500 [hep-ex]
10.1007/JHEP11(2014)104
JHEP **1411**, 104 (2014)
25. “*Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.3433 [hep-ex]
10.1140/epjc/s10052-014-3195-6
Eur. Phys. J. C **74**, no. 12, 3195 (2014)
26. “*Search for $H \rightarrow \gamma\gamma$ produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.3122 [hep-ex]
10.1016/j.physletb.2014.11.049
Phys. Lett. B **740**, 222 (2015)
27. “*Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s_{NN}} = 5.02$ TeV proton-lead collisions with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.1792 [hep-ex]
10.1103/PhysRevC.90.044906
Phys. Rev. C **90**, no. 4, 044906 (2014)
28. “*Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector*”
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1409.0746 [hep-ex]
10.1007/JHEP11(2014)088
JHEP **1411**, 088 (2014)
29. “*Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector*”

- G. Aad *et al.* [ATLAS Collaboration].
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8. Non-Refereed Publications (total of 9)

“Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics,” G. Aad *et al.* [ATLAS Collaboration] (joint author), arXiv:0901.0512 (January 2009).

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The Discovery of the Top Quark, P. K. Sinervo, University of Toronto Preprint UOFT-95-25, November 1995, to be published in the proceedings of “1995 Lake Louise Winter Institute on Quarks and Colliders,” Lake Louise, AL, February 19-25, 1995.

The Search for Physics Beyond the Standard Model by CDF, P. K. Sinervo, University of Toronto Preprint UOFT-92-10, September 1992, to be published in the proceedings of “Beyond the Standard Model III” conference, Carleton University, June 22-25, 1992.

Two and Three Body Partial Wave Analysis, P. K. Sinervo, in “Topics in Hadron Spectroscopy,” ed. D. C. Peaslee (Nova Science Publishers, New York, 1991), pp. 137-260.

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Search for New Particles at CDF, P. K. Sinervo, in “Proceedings of the 1989 International Symposium on Lepton and Photon Interactions at High Energies,” ed. M. Riordan (World Scientific, Singapore, 1990), pp. 328-347.

9. Manuscripts Submitted for Publication

I no longer list the numerous papers that are currently in submission or under review.

10. Papers Presented at Meetings and Symposia

1. *Recent LHC Results: Beyond the Standard Model with Boost*, Invited Review for BOOST 2013, Flagstaff, AZ (August 2013).
2. *Really Understanding Boosted Objects*, 2011 Aspen Centre for Physics, Aspen, CO (July 2011).
3. *Search for Boosted Top Quarks at CDF*, BOOST 2011, Princeton University, New Jersey, USA (May 2011).
4. *Massive High p_T Jets: An Update from CDF*, Boston Jets Workshop, Harvard University, USA (January 2011).
5. *Massive High p_T Jets: Preliminary Results from CDF*, BOOST 2010, Oxford University, England (June 2010).
6. *The Search for New Physics Using the Top Quark at the Tevatron*, representing the CDF and DZero collaborations at TOP 2010, Bruges, Belgium (June 2010).
7. *Weighing the Top Quark at CDF*, SUSY 09, Northeastern University, USA (June 2009). Published in AIP Conf. Proc. **1200**, 670-673 (2010).
8. *Measurement of the Top Production Cross Section Rate from Gluon Fusion at CDF* (poster session), Particles and Nuclei in Collision Conference, Eilat, Israel (November 2008).
9. *Measurement of Single Top Quark Production at CDF* (poster session), Particles and Nuclei in Collision Conference, Eilat, Israel (November 2008).
10. *Measurement of the Top Quark Mass with in situ $W \rightarrow q\bar{q}'$ Calibration*, Canadian Association of Physicists Congress, York University (Jun 2005).
11. *Definition and Treatment of Systematic Uncertainties in High Energy Physics and Astrophysics*, invited talk at PhyStat2003, Stanford University, USA (Sep 2003).
12. *Significance in Particle Physics Experiments*, invited talk at the Conference on Advanced Statistical Techniques in Particle Physics, University of Durham, England (Mar 2002).

13. *The High Energy Frontier – CDF II at the Tevatron Collider*, contributed talk at the Canadian Association of Physicists Congress, University of Victoria, BC (Jun 2001).
14. *Tevatron Higgs Searches in Run II*, invited talk at Higgs-Supersymmetry Workshop, LAL, Orsay, France (Mar 2001).
15. *The Search for Single Top Production*, contributed talk at the Canadian Association of Physicists Congress, York University, ON (Jun 2000).
16. *What We Know About Truth*, invited talk at the Western Regional Nuclear and Particle Physics Conference, Lake Louise, AL (Feb 2000).
17. *Calorimetry in Top Quark Physics*, invited talk at CALOR99, Conference on Calorimetry in High Energy Physics, Lisbon, Portugal (Jun 1999).
18. *Bottom Quark Fragmentation Fractions in $p\bar{p}$ Collisions with CDF at $\sqrt{s} = 1.8$ TeV*, W. Taylor, P. Sinervo, *et al.* (CDF Collaboration), contributed talk to the International Conference in High Energy Physics, Vancouver, Canada (Aug 1998).
19. *The CDF Top Quark Search*, paper presented at the Workshop on the Origin of Fermion Masses and Mixings, Fermilab, USA (Oct 1994).
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21. *The Status of the Top Quark Search*, paper presented at the Canadian Association of Physicists 1994 Congress, Regina, Canada (Jun 1994).
22. *Results from the CDF Experiment*, paper presented at the Canadian Association of Physicists 1993 Congress, Vancouver, Canada (Jun 1993).
23. *Top at the SSC and LHC*, paper presented at the Workshop on Collider Top Physics, Madison, WI (Nov 1992).
24. *The Search for Physics Beyond the Standard Model with CDF*, paper presented at the conference *Beyond the Standard Model III*, Ottawa, Canada (Jun 1992).
25. *The Search for the Top Quark*, paper presented at the 12th Nordic Meeting on Particle Physics, Spatind, Norway (Jan 1992).
26. *Bottom Physics at Hadron Colliders*, paper presented at the conference on *Results and Perspectives in Particle Physics*, La Thuile, Italy (Mar 1991).
27. *The Search for the Top Quark at CDF*, paper presented at the annual meeting of the Division of Particles and Fields, Storrs, CN (Jul 1988).

11. Invited Lectures

1. *What we Know (and Don't Know) About the Higgs Boson*, CIFAR Cosmology and Gravity Meeting, Quebec City, QC, 22-24 May 2014.
2. *CMS and ATLAS Searches for Exotic States with Jets+X*, Tohoku Workshop on Higgs and Beyond, Sendai, Japan, 5-9 June 2013.
3. *What Finding the God Particle Means*, Temple Emanu-El Public Lecture, 5 May 2013.
4. *What Finding the God Particle Means*, Massey College Fellows Lunch Lecture Series, Mar 2013.
5. *The Discovery of the Higgs Boson*, Vic One Colloquium, Victoria College, University of Toronto, Jan 2013.
6. *The Search for the Higgs Boson*, CIFAR Brown-Bag Lunch Series, Canadian Institute for Advanced Research, Jan 2012.
7. *The Search for the Higgs Boson*, Vic One Colloquium, Victoria College, University of Toronto, Oct 2011.
8. *Top and Higgs at CDF and ATLAS*, series of three seminars given in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Sep-Dec 2008.
9. *Top Quark Physics*, two invited lectures at the TRIUMF Summer Institute 2009, Vancouver, BC, Jul 2009.
10. *The Race for the Higgs Boson*, colloquium in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Apr 2009.
11. *Study of Anomalous Production of Multi-Muon Events*, colloquium in the Department of Physics, Technion, Haifa, Israel, Feb 2008.
12. *Search for Truth: What We Know About the Top Quark*, colloquium in the Department of Physics, Tel Aviv University, Tel Aviv, Israel, Jan 2009.
13. *Study of Anomalous Production of Multi-Muon Events*, seminar in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Nov 2008.
14. *Top and Higgs at CDF and ATLAS*, series of three seminars given in the Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel, Sep-Dec 2008.
15. *Weighty Matter: The Top Quark and its Mass*, colloquium given at Tec de Monterrey, Monterrey, Mexico, 21 Mar 2007.
16. *Weighty Matter: The Top Quark and its Mass*, colloquium given at Waseda University, Tokyo, Japan, 15 Oct 2006.

17. *Weighty Matter: The Top Quark and its Mass*, colloquium given at the Weizmann Institute, Rehovot Israel, 5 Jul 2006.
18. *Weighty Matter: The Top Quark and its Mass*, colloquium given at Cornell University, USA, 29 Jan 2006.
19. *Weighty Matter: Measuring the Top Quark Mass*, colloquium given at Tsinghua University, Beijing, 5 Dec 2005.
20. *Weighty Matter: Measuring the Top Quark Mass*, colloquium given at the Institute for High Energy Physics, Beijing, 7 Dec 2005.
21. *Weighty Matter: Measuring the Top Quark Mass*, colloquium given at Shanghai Jiaotong University, Shanghai, 15 Dec 2005.
22. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at Hong Kong University, Nov 2004.
23. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at National University of Singapore, Nov 2004.
24. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at Seoul National University, Nov 2004.
25. *Weighty Truth: Measuring the Top Quark Mass*, colloquium given at University of Jyväskylä, Oct 2004.
26. *Emerging Top Results from CDF II*, colloquium given in the Physics Institute, University of Bonn, Feb 2004.
27. *Search for Truth*, colloquium in the Institute of Physics, University of Helsinki, Oct 2003.
28. *The Mysteries of the Top Quark*, colloquium in the Department of Astronomy and Physics, St. Mary's University, Mar 2003.
29. *Frontiers in Particle Physics: Some Old Statistical Problems*, colloquium in the Department of Statistics, University of Toronto, Jan 2002.
30. *The Discovery of the Top Quark*, CAP Undergraduate Lecture, Trent University, Mar 2001.
31. *The Discovery of the Top Quark*, colloquium at the University of Guelph, Feb 2001.
32. *The Top Quark: Scientific Success or Failure?*, invited lecture at the Institute for the History and Philosophy of Science and Technology, University of Toronto, Oct 1999.
33. *The Debut of Top*, colloquium at the University of British Columbia, May 1999.
34. *Observations on Top*, colloquium at Carleton University, Feb 1999.

35. *The Nature of Truth and Beauty (quarks, that is)*, Senior Common Room talk, University College, Oct 1998.
36. *Careers in Physics*, lecture at Upper Canada College, Toronto, Feb 1998.
37. *Careers in Physics*, lecture at Upper Canada College, Toronto, Feb 1998.
38. *The Stuff We are Made of*, public lecture at Ernescliffe College, University of Toronto, Nov 1997.
39. *Physics with Secondary Vertices*, colloquium at California Institute of Technology, Jun 1997.
40. *Search for Fundamental Structure*, colloquium at Simon Fraser University, Oct 1996.
41. *Search for Fundamental Structure*, colloquium at University of British Columbia, Oct 1996.
42. *Top to Bottom*, High energy physics seminar at University of British Columbia, Oct 1996.
43. *Search for Fundamental Structure*, colloquium at University Victoria, Oct 1996.
44. *Top to Bottom*, High energy physics seminar at University of Toronto, Oct 1996.
45. *Top to Bottom*, High energy physics seminar at University of Rochester, Sep 1996.
46. *The Discovery of Truth: How the Top Quark was Found*, invited lecture, Royal Canadian Institute, University of Toronto, Oct 1995.
47. *Quarks and Cosmos*, invited lecture in the Frontiers in Physics lecture series, Learning Unlimited, Etobicoke, ON, Oct 1995.
48. *The Physics of CDF*, a series of five lectures presented at the 1995 TRIUMF Summer Institute, Jul 1995.
49. *Top Studies at Hadron Colliders*, a series of three lectures presented at the 1995 SLAC Summer Institute. Proceedings to be published.
50. *The Search for Top*, a series of two lectures presented at the 1995 Lake Louise Winter Institute. Proceedings to be published.
51. *New Results from CDF*, colloquium at Carleton University, Apr 1995.
52. *Observation of Top Quark Production*, colloquium at the University of Toronto, Mar 1995.
53. *What is Our World Made Of?*, invited lecture given at the Annual Meeting of the Science Teachers Association of Ontario, Toronto, ON, Nov 1994.
54. *Have We Reached the Top Yet?*, colloquium at Guelph University, Nov 1994.
55. *Status of the Top Quark Search*, invited talk at the Workshop on the Origins of Fermion Masses and Couplings, Fermilab, IL, Oct 1994.

56. *Status of the Top Quark Search*, colloquium presented at University of Alberta Physics Department, Sep 1994.
57. *Networking and HEP Data Collection*, invited talk presented at the Fermilab Affiliates Meeting, Sep 1994.
58. *Status of the Top Quark Search*, colloquium at University of Alberta, Sep 1994.
59. *Status of the Top Quark Search*, invited talk at the Canadian Association of Physicists Symposium, University of Regina, Jun 1994.
60. *Have We Seen the Top Quark?*, invited colloquium at TRIUMF, Vancouver BC, May 1994.
61. *Have We Seen the Top Quark?*, invited colloquium at the University of Waterloo, May 1994.
62. *Have We Found the Top Quark*, seminar presented at University of Toronto Physics Department, Apr 1994.
63. *Finding Truth by Searching for Beauty*, invited colloquium at McMaster University, Sep 1993.
64. *What Have We Learned from Studying High Energy Proton-antiproton Collisions?*, invited colloquium at Harvard University, Oct 1991.
65. *Experimental Particle Physics*, a series of four lectures presented at the 1990 Theoretical Advanced Study Institute, in “Proceedings of the 1990 Theoretical Advanced Study Institute in Elementary Particle Physics,” ed. M. Cvetič and P. Langacker (World Scientific, Singapore, 1991), pp. 591-632.
66. *Experimental Techniques in Hadron Spectroscopy*, a series of three lectures presented at the 1988 Summer School on Hadron Spectroscopy, University of Maryland, Jul 1988 (to be published).

D. List of Courses

12. a. Undergraduate Courses

- PHY140Y – “Foundations of Physics.” Enrolment: 140-160
This is a first year specialist physics course. I team taught it with Prof. K. Strong in Jan 1999 and 2000.
- PHY252S – “Thermal Physics.” Enrolment: 50
I taught this course for four years starting in Jan 1993. This is a half-year introductory course on Thermal Physics. The text for this course is *Thermal Physics* by Kittel and Kroemer.

- I was responsible for the Physics Olympiad Preparation Programme at the University of Toronto from May 1992 to Sep 1996. This programme screens students from the Ontario high schools and selects the best students to compete in the Canadian Physics Olympiad. I am currently completing a compilation of the problems and solutions we have developed over the last five years, which we intend to publish.
- PHY352S – “Electrodynamics.” Enrolment: 50
I taught this course from Jan 1991 through May 1993. This is a half-year course on classical electrodynamics, focusing on Maxwell’s equations, special relativity and electromagnetic waves. The text for this course is *Classical Electrodynamics* by H. C. Ohanian.
- PHY150 – “Mechanics.” Enrolment 90 (estimated)
I taught this course at the University of Pennsylvania during the Fall 1988 and Winter 1990 terms. The course focused on mechanics and covered the first 15 chapters of *Fundamentals of Physics* by Halliday and Resnick.

12. b. Graduate Courses

- PHY1600S – “Effective Communication for Scientists,” spring 2016.
- PHY2407S – “Physics and Anatomy of High-Energy Hadron Scattering,” in spring 2014 and spring 2015.
- PHY2405S – “Experimental Methods in Particle Physics,” in spring 2013.
- PHY1510H – “Classical Electromagnetism” in fall 2010.
- PHY2407F – “Physics and Anatomy of High-Energy Hadron Scattering,” in fall 2009.
- I taught an advanced particle physics course at the Weizmann Institute of Science, Rehovot, Israel, “Physics and Anatomy of High-Energy Hadron Scattering,” in spring 2009.
- 2-week module of PHY2406F, “Experimental Methods in Particle Physics,” in spring 2006.
- 2-week module of PHY4107F, “Experimental Methods in Physics,” in fall 1996 and 1997.
- In collaboration with Prof. David Bailey, PHY2405, “Experimental High Energy Physics,” in fall 1994 and 1995.

12. c. Undergraduate and Graduate Student Supervision

I have been primary advisor for the following graduate students:

- N. Thorpe, M.Sc. (2009) and Ph.D. candidate at the University of Toronto (2009-2011).

- T. Farooque, Ph.D. candidate at the University of Toronto (2007-2013). Her thesis was titled *Search for Heavy Resonances Decaying to Top Quark Pairs in the Boosted All-Hadronic Decay Channel*, Jun 2013.
- B. Guo, M.Sc. (2006-2007) and Ph.D. candidate at the University of Toronto (2006-2011). His thesis was titled *Measurement of the Top Quark Pair Production Cross Section and an in-situ B-tagging efficiency Calibration with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV in Dilepton Final States*, Jul 2011.
- S. Pashapour, M.Sc. (1999-2001) and Ph.D. graduate at the University of Toronto (2001-2008). Her thesis was titled *First Measurement of $\sigma(gg \rightarrow t\bar{t})/\sigma(p\bar{p} \rightarrow t\bar{t})$* , Apr 2008.
- S. Lai, M.Sc. (2000-2001) and Ph.D. graduate at the University of Toronto (2001-2006). His thesis was titled *The Search for the Standard Model Higgs Boson Produced in Association with a Top Anti-Top Quark Pair in 1.96 TeV Proton-Antiproton Collisions*, Dec 2006.
- J. Arguin, Ph.D. graduate at the University of Toronto (2001-2005). His thesis was titled *Measurement of the Top Quark Mass Using In Situ Jet Energy Scale Calibration*, Dec 2005. This thesis won the 2006 Universities Research Association (URA) Thesis Award for “most outstanding doctoral thesis written on research conducted at Fermilab or in collaboration with Fermilab scientists” and the American Physical Society Tanaka Thesis Prize.
- A. Robinson, M.Sc. (1996-1997) and Ph.D. graduate at the University of Toronto (1997-2000). His dissertation was titled *Measurement of the Top Quark Transverse Momentum Distribution*.
- W. Taylor, M.Sc. (1993-1994) and Ph.D. graduate at the University of Toronto (1994-1999). Her dissertation was titled *A Measurement of b-quark Fragmentation Fractions in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV*.
- A. Warburton, M.Sc. (1991-1992) and Ph.D. graduate at the University of Toronto (1992-1997). His dissertation was titled *A Study of Exclusive Nonleptonic Decays of B Mesons into Final States of Strange Mesons and 1S or 2S Charmonia*.
- H. Kim, M.Sc. (1991-1992) and Ph.D. graduate at the University of Toronto (1993-1999). His dissertation was titled *Search for a New Charged Heavy Vector Boson Decaying to a $\mu\nu_\mu$ Pair*.
- R. Grindley, Ph.D. candidate at the University of Toronto (1990-1992).
- G. Sganos, M.Sc. (1990-1991) and Ph.D. graduate at the University of Toronto (1991-1996). His dissertation was titled *Measurement of Ratios of Branching Fractions in B Meson Decays*.
- A. Krumins, Ph.D. candidate at the University of Toronto (1990-1991). Mr. Krumins transferred to the Department of History and Philosophy of Science and Technology in fall 1991.

I have also acted as co-advisor for the following graduate students:

- Lingfeng Song, Ph.D. dissertation at the University of Pennsylvania. Dr. Song defended his dissertation on “ $B^0\bar{B}^0$ Mixing” in Sep 1991.
- David Connor, Ph.D. dissertation at the University of Pennsylvania. His thesis, completed in 1991, is on the “Study of Multi-Jet Final States Observed at CDF.” I was his secondary supervisor for the period 1987 through 1990.
- John Walsh, Ph.D. dissertation at the University of Pennsylvania. His thesis is titled “Search for the Top Quark in Electron + Jet Events,” and was completed in Apr 1990. I was his secondary supervisor for the period 1988 through 1990.

I have supervised the following undergraduate students:

- Jung-Yook Yoon, co-supervised Woodsworth Science Abroad student working on the development of beam conditions monitors for ATLAS, May 2013-Aug 2013.
- Jung-Yook Yoon, co-supervised Woodsworth Science Abroad student working on the development of beam conditions monitors for ATLAS, May 2014-Aug 2014.
- Ryan Underwood, Woodsworth Science Abroad program working on the search for massive particles decaying to top quark pairs, May 2012-Aug 2012 and May 2013-Aug-2013.
- Jeff Dror, NSERC summer research assistant working on the search for mass particles decaying to top quark pairs, May 2012-Aug 2012.
- Aysha Adel-Aziz, Woodsworth Science Abroad program working on the development of diamond pixel detectors, May 2011-Aug 2011 (co-supervised with Prof. William Trischuk).
- Jennifer Jing Fei Yu, NSERC summer research assistant, working on ATLAS detector calibrations of jets, May 2010-Aug 2010.
- Keith Ng, NSERC summer research assistant, working on ATLAS detector missing transverse energy calibrations, May 2010-Aug 2010.
- Trisha Farooque, NSERC summer research scholar working on the CDF II top quark mass measurement, May 2006-Aug 2006.
- Si Xie, NSERC summer research scholar working on the CDF II top quark mass measurement, May 2004-Apr 2006.
- Ian Blumenfeld, B.A.Sc. thesis at the University of Toronto. Mr. Blumenfeld completed his thesis “Top Quark Mass Measurements” in Apr 2004.
- Timothy Little, B.A.Sc. thesis at the University of Toronto. Mr. Little completed his thesis “Calorimetry Calibration” in Apr 2003.
- Wojciech Fedorko, NSERC summer research scholar working on the CDF II calorimeter software development project, May 2002-Aug 2002 and May 2002-Aug 2003.

- John Berdeklis, research assistant on the CDF software development project, May 2000-Aug 2000.
- James Gordon, NSERC summer research scholar working on ATLAS pixel detector development, May 2000-Jul 2000.
- Aidan Robson, research assistant on the ATLAS pixel project, May 1999-Aug 1999. Also worked on the CDF II calorimetry software development project, May 2000-Aug 2000.
- Debbie Chachra, B.A.Sc. thesis at the University of Toronto. Ms. Chachra completed her thesis on “A Feasibility Study of the Use of Scintillator in the Sudbury Neutrino Observatory” in Apr 1991.

12. d. Course Development

I have been involved in the development of software for use in the undergraduate physics program at the University of Toronto. I developed a number of Mathematica applications that were used by PHY352S students during the 1992 spring term to both solve problems and improve their understanding of various concepts presented in lectures.

I also developed a set of lecture notes for PHY352S that are distributed to students prior to lectures. These notes are meant to provide the students with a complete presentation of the course material, and are approximately 150 pages in length.

I have developed a similar set of lecture notes for PHY252S. I have used Mathematica extensively for the illustrations and problems presented in the notes.

E. Administrative Positions

13. a. University Committees (at University of Toronto)

- Member, Canada First Research Excellence Fund Advisory Committee, Dec 2014 - Mar 2015.
- Member, Weston Graduate Fellowship Selection Committee, School of Graduate Studies, spring 2014.
- Co-chair, 2012 Welsh Lecture Committee, Department of Physics, Sep 2011 - May 2013. Member Sep 2013 - May 2015.
- Member, Federated Colleges Memorandum of Agreement Steering Committee, Jun 2007 - Feb 2008.
- Member, Principal Search Committee, Woodsworth College, Feb-Apr 2007.
- Member, Principal Search Committee, New College, Feb-Apr 2006.

- Member, Principal Search Committee, Innis College, Feb-Apr 2005.
- Member, Principal Search Committee, University College, Feb-Apr 2005.
- Member, Human Resources Management Board, Jul 2003 - Feb 2008.
- Member, Review Committee for Federated College Memorandum of Agreement.
- Co-Chair, Life Sciences Curriculum Planning Committee, Jan 2002 - Dec 2002.
- Chair, Scientific Oversight Committee for the Koffler Scientific Reserve at Joker's Hill, Jun 2002 - Apr 2003.
- Chair, Faculty of Arts and Science Web Advisory Committee, Oct 2002 - Dec 2002.
- Chair, Oversight Committee, Canadian University Centre in Berlin, Jan 2003 - Apr 2003.
- Member, Vice-Principal (Academic) and Vice-Principal (Research) Search Committees, University of Toronto at Mississauga, Nov - Dec 2002.
- Member, Vice-Dean (Research) Search Committee, Faculty of Medicine, University of Toronto, Nov-Dec 2002.
- Member, High Energy Physics Faculty Search Committee for the Department of Physics, University of Toronto, Sep 2001 - Feb 2002.
- Member, CUPE 3902 Labour-Management Committee, Jan 2003 - Jun 2004. Interim Chair, Institutional Council for the Association of Canadian Universities for Research in Astronomy, Dec 2002 - Jun 2008.
- Chair Search Committee, Faculty of Arts and Science for:
 - Chair of eight department chair search committees in 2007-2008
 - Chair of eleven department chair search committees in 2006-2007
 - Chair of seven department chair search committees in 2005-2006
 - Chair of seven department chair search committees in 2004-2005
 - Chair of nine department chair search committees in 2003-2004
 - Member, Department of Chemistry, Jan 2003
 - Member, Department of Computer Science, Dec 2002
 - Member, Department of Psychology, Mar 2001
- Member, Faculty of Arts and Science Dean's Senior Salary Committee, Jun 2000 - 2003. Chair of Committee 2004-2007.
- Member, Academic Advisory Board of the Computing Management Board, Sep 2000 - Jun 2004.

- Member, Senior Health and Safety Committee, Sep 2000 - Jun 2004.
- Member, Provostial Advisory Committee on Graduate Student Funding, Jan 2001 - Jun 2003.
- Member, Interim Steering Committee for the Centre for Cellular and Biomolecular Research, Jul 2001 to Jun 2003.
- Member of Council, School of Graduate Studies, University of Toronto, Jul 2001 to Jun 2003.
- Chair, Sciences Curriculum Committee, Faculty of Arts and Science, Aug 2000 to Jun 2003.
- Member, Canada Research Chair Advisory Committee, Mar-Jun 2000.
- Chair, Faculty of Arts and Science Graduate Advisory Committee, Sep 2000-Aug 2001.
- Presidential Installation Committee, Aug 2000-Sep 2000.
- Member, School of Graduate Studies Division III Associate Dean Search Committee, Apr 2000.
- Member, Engineering Science Chair's Search Committee, Faculty of Applied Science and Engineering, University of Toronto, Mar 2000.
- Committee on Institutes and Centres, School of Graduate Studies, Feb 2000.
- Division III Executive and Council, School of Graduate Studies, Sep 1998 to Jun 2001.
- Member, Committee on Honorary Degrees, University of Toronto, Sep 1998 to Aug 2000.
- Member, Budget Committee, Faculty of Arts and Science, Jul 1997 to Jun 1999.
- Member, Complement Planning Committee, Faculty of Arts and Science, Jul 1998 to Aug 2000.
- Member, Research Advisory Board Executive, University of Toronto, Sep 1999 to Jun 2004.
- Member, Dean's Merit Award Committee, Faculty of Arts and Science, Jun 1999.
- Undergraduate Education Advisory Committee, Faculty of Arts and Science, Sep 1997 to Aug 1999.
- Sales and Distribution Steering Committee, University of Toronto, Feb 1998.
- Faculty of Arts and Science Computer Users Committee, University of Toronto, Feb 1998.
- Dean's representative on the following tenure review committees:
 - Prof. D. Lynch, Department of English, Oct 2006.
 - Prof. R. Jayawardhana, Department of Astronomy and Astrophysics, Mar 2007.

- Prof. U. Wortmann, Department of Geology, Mar 2007.
- Prof. R. Kingston, Department of Political Science, Jan 2007.
- Prof. L. White, Department of Political Science, Mar 2006.
- Prof. A. Maynard, Department of Economics, Mar 2006.
- Prof. D. Berends, Department of Sociology, Mar 2006.
- Prof. D. Zamble, Department of Chemistry, Mar 2006.
- Prof. J. Hackworth, Department of Geography, Mar 2006.
- Prof. M. Woodland, Department of English, Mar 2006.
- Prof. L. Fuster, Department of Economics, Mar 2006.
- Prof. U. Esonwanne, Department of English, Mar 2005.
- Prof. R. Pysklywec, Department of Geology, Mar 2005.
- Prof. A. Chasteen, Department of Psychology, Mar 2005.
- Prof. I. Peng, Department of Sociology, Mar 2005.
- Prof. S. Scheiman, Department of Sociology, Mar 2005.
- Dr. A. Rosenthal, Computer Science, Nov 2005 (senior lecturer).
- Prof. M. Woodland, Department of English, Mar 2004.
- Prof. J. Colliander, Department of Mathematics, Mar 2004.
- Prof. J. Brenan, Department of Geology, Mar 2003.
- Prof. S. Tenenbaum, Department of Philosophy, Mar 2003.
- Prof. J. Bertrand, Department of Political Science, Apr 2003.
- Prof. H. Rodd, Department of Zoology, Feb 2003.
- Prof. L. Cohen, Department of Anthropology, Jan 2003.
- Prof. Y. Karshan, Department of Mathematics, May 2002.
- Prof. R. Jerrard, Department of Mathematics, May 2002.
- Prof. D. Bar-Natan, Department of Mathematics, May 2002.
- Prof. J. Schofield, Department of Chemistry, Feb 2002.
- Prof. A. Yudin, Department of Chemistry, Feb 2002.
- Prof. D. Goring, Department of Botany, Jun 2001.
- Prof. H. Kim, Department of Mathematics, Jun 2001.
- Prof. R. Zemel, Department of Computer Science, Apr 2001.
- Prof. S. Stevenson, Department of Computer Science, Apr 2001.
- Prof. R. Miller, Department of Computer Science, Apr 2001.
- Prof. M. Pugh, Department of Mathematics, Apr 2001.

- Prof. E. Kumacheva, Department of Chemistry, Mar 2001.
- Prof. R. Cameron, Department of Botany, Mar 2001.
- Prof. P. Kotanen, Department of Botany, Mar 2001.
- Chair of the following Department of Physics tenure review committees:
 - Prof. Robert Birgeneau, 2000.
 - Prof. Michael Luke, 1997-98.
 - Prof. Thom Mason, 1997-98.
 - Prof. Stephen Morris, 1997-98
- Chair of the following Department of Physics Committees:
 - Promotions Committee, Sep 1997 to 2000.
 - Physics Computing Services Committee, Sep 1997 to 2000.
 - Planning Committee, Sep 1997 to 2000.
 - Industrial Liaison Council, Sep 1997 to 2000.
 - Award Nominations Committee, Sep 1997 to 2000.
- Member of the High School Liaison Committee, Department of Physics, Sep 1997 to Aug 2000.
- Member of the Physical Sciences Panel of the Research Advisory Board, University of Toronto, Oct 1997 to Aug 2000.
- High Energy Physics Faculty Search Committee for the Department of Physics, University of Toronto, Sep 1994 through Apr 1995.
- Physics Computing Services Committee, Department of Physics, University of Toronto, Sep 1994 to Aug 1996.
- Infrastructure Planning Committee for the Department of Physics, University of Toronto, Apr 1994 through May 1994.
- High Energy Physics Faculty Search Committee for the Department of Physics, University of Toronto, Sep 1993 through Jul 1994.
- Graduate Admissions Committee for the Department of Physics, University of Toronto, Sep 1993 to Jun 1996.
- Graduate Curriculum Committee for the Department of Physics, University of Toronto, Sep 1992 through May 1993.
- Review Committee for Dr. David Harrison, senior tutor in the Department of Physics, University of Toronto, Mar 1993.

- Undergraduate Curriculum Committee for the Department of Physics, University of Toronto, Sep 1992 through May 1992 and after Sep 1995.
- Technical Services Committee for the Department of Physics, University of Toronto, appointed Sep 1991.
- Committee to Evaluate Undergraduate Laboratories, Department of Physics, University of Toronto, Sep 1991 through May 1992.
- Member of Colloquium Committee in the Physics Department, University of Pennsylvania, Sep 1988 through Aug 1989.

13. b. Academic Committees Outside the University

- Member, McGill University CFI VIII Joint Selection Committee, March 2014 to June 2014.
- Chair, Canada Foundation for Innovation Multidisciplinary Assessment Committee, September 2012.
- Chair, SNOLAB Institute Board of Management, September 2010 to February 2016.
- Chair, Selection Committee for the TRIUMF-CAP Vogt Medal, spring 2011 to 2013.
- Chair, Academic Advisory Committee, Baycrest Health Science Centre and Hospital, July 2009 to October 2013.
- Member, Board of Directors, Baycrest Health Science Centre and Hospital, July 2009 to October 2013.
- Lead Reviewer, External Assessment of the Faculty of Science, University of Alberta, February 2010.
- Member, NSERC Steacie Fellowship Selection Committee, fall 2009.
- Member, NRC Steacie Prize Selection Committee, fall 2009 and fall 2010.
- Chair, NSERC Discovery Accelerator Supplements Review Committee for Physical Sciences, May 2009.
- Member, Helmholtz Association Review Committee of Particle Physics Program, DESY, Feb 2009.
- Chair, Expert Panel on Nanotechnology, Canadian Council of Academies, Jun 2007 to Jun 2008.
- External Reviewer, Department of Physics and Astronomy, University of Pennsylvania, Feb 2008.

- External Reviewer, Department of Physics and Astronomy, University of Victoria, Nov 2007.
- External Reviewer, Arts in Science Programs, McGill University, Apr 2007.
- Member, DOE Expert Review Committee, Stanford Linear Accelerator Center, Jun 2006 and Jun 2007.
- Chair, Tory Medal Selection Committee, Division of Mathematical and Physical Science, Royal Society of Canada, May 2006 - Jun 2009.
- Member, External Review Committee for the Faculty of Science, Jyväskylä University, Oct 2005.
- Chair, Institutional Council of the Association of Canadian Universities for Research in Astronomy, May 2004 - Jun 2008.
- Director, Division of Mathematical and Physical Science, Royal Society of Canada, May 2003 - Nov 2005.
- Chair, Fellowship Selection Committee, Division of Mathematical and Physical Science, Royal Society of Canada, May 2001 - Nov 2005.
- Member, NSERC Council for Research Grants (Group Chair for Physics), Feb 2003 - Jun 2006.
- Member, NSERC Steacie Fellowship Selection Committee, Sep 2003 - Dec 2003.
- Member, Rotman Research Institute Advisory Committee, Sep 2001 - Jun 2008.
- Member, International Advisory Committee, Conference on Statistical Problems in Particle Physics, Astrophysics and Cosmology, Stanford Linear Accelerator Center, Sep 2003.
- Member, Fermilab Run II Computing Review Panel, May 2002.
- Member, Swiss Science Study Tour, a week-long tour of the federal Swiss research laboratories, organized by the Swiss government and led by Dr. Arthur Carty, president of the National Research Council, Apr 2002.
- Chair, External Review Committee for the UBC Department of Physics and Astronomy, Nov 2001.
- Member, NSERC Scholarships and Fellowships Selection Committee (Chemistry and Physics), Feb 2001 - Feb 2002.
- Chair, NSERC Reallocation Steering Committee for Subatomic Physics Jul 2000 - Jun 2002.
- Chair, SNO-ARC Science Subcommittee, Dec 1999 to Jun 2006.
- Chair, NRC Advisory Committee on TRIUMF, Jun 1999 to Jun 2004.

- Member, International Advisory Committee, 5th International Conference on Hyperons, Charm and Beauty Hadrons, University of British Columbia, Jun 2001 to Jul 2002.
- Member, International Advisory Committee, Conference on Advanced Statistical Techniques in Particle Physics, University of Durham, England, Jun 2001 to Jun 2002.
- Chair, CDF II Data Handling Review Committee, Fermi National Accelerator Laboratory, Sep 2001 to Jun 2002.
- Member, CDF II Statistics Committee, Fermi National Accelerator Laboratory, Jan 2001 to Jun 2006.
- Member, Director's Review of the Physics Division, Lawrence Berkeley National Laboratory, Nov 1999-2000.
- Session Chair, American Physical Society Meeting, Atlanta, GA, Mar 1999.
- Member, NSERC Doctoral Prizes Selection Committee, Nov 1998.
- Member, TRIUMF Board of Management, representing University of Toronto (Dec 1997 - Dec 2000).
- Chair, NSERC Subatomic Physics Grant Selection Committee (Jul 1997-Jun 1998).
- Chair, NSERC Reallocation Steering Committee for Subatomic Physics (Jul 1997-Jan 1998).
- Member, NSERC Subatomic Physics Grant Selection Committee (Jul 1996-Jun 1998).
- Member, BABAR Experiment Software and Computing Review Committee (Nov 1996).
- Vice-Chair, NSERC and Canadian Association of Physicists Subatomic Physics Review Committee (May 1996-Jun 1998).
- Chair, BABAR Experiment Reconstruction Software Review Committee (Apr 1996).
- Member, Software Infrastructure Review Committee for the STAR Collaboration, Lawrence Berkeley Laboratory (Aug 1995).
- Member, Stanford Linear Accelerator Center BABAR Technical Review Committee (Mar 1995-May 1998).
- Chair, Particle Physics Division, Canadian Association of Physicists (Jul 1994-Jun 1995).
- Member, NSERC/NRC SNO Review Committee (Nov 1994 to Nov 1999).
- Member, NSERC OPAL Review Committee (Nov 1993 and 1994).
- Member, NSERC ATLAS Review Committee (Nov 1993).
- CDF Collaboration Offline Group Leader (Aug 1993-Sep 1996).

- Member, Fermilab User's Executive Committee (Sep 1993 - Aug 1995).
- Conference session organizer, International Industrial Symposium on the Super Collider, San Francisco, CA (May 1993).
- Representative for University of Toronto on the Solenoid Detector Collaboration Institutional Board (Jan 1991-Oct 1993).
- Member, Technical Steering Committee for the Solenoid Detector Collaboration Electronics Group (Jun 1992-Oct 1993).
- Representative for University of Toronto on the Collider Detector at Fermilab Executive Board (May 1991 to Jun 1998).
- Conference session organizer, APS Division of Particles and Fields meeting, Vancouver BC (Aug 1991).
- Representative for University of Toronto on the Institutional Board of the Solenoid Detector Collaboration (1990-1993).
- Co-chair of the Heavy Flavour Analysis Group of the CDF collaboration (1990-1992).
- Co-chair of the Top Quark subgroup at the "Physics in the 1990's" workshop held in Breckenridge, CO (Aug 1989).