

CURRICULUM VITAE

S. SAMUEL BEDERMAN, MD PhD FRCSC

Department of Orthopaedic Surgery, University of California, Irvine

101 The City Drive South, Pavilion III, Orange, CA 92868

Academic Office 714 456-5759 Fax 714 456-7547 Appointments 714 456-7012

Email: sbederma@uci.edu**EDUCATION****University and Degrees**

University of Toronto Toronto, ON	Doctor of Philosophy Health Services Research	2006 – 2010
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University of Toronto Toronto, ON	Doctor of Medicine	1997 – 2001
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University of Toronto Toronto, ON	Master of Science Biostatistics	1995 – 1997
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University of Western Ontario London, ON	Bachelor of Science Mathematics/Statistics	1991 – 1994
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Postgraduate Medical Training - Residency

University of Toronto Toronto, ON	Residency Orthopaedic Surgery	2001 – 2006
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Postgraduate Medical Training – Research Fellowships

Clinician Investigator Program Royal College of Physicians & Surgeons of Canada		2006 – 2009
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Surgeon-Scientist Program Division of Orthopaedic Surgery, University of Toronto, Toronto, ON		2006 – 2009
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Institute for Clinical Evaluative Sciences, Toronto, ON		2007 – 2009
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Child Health Evaluative Sciences The Hospital for Sick Children Research Institute, Toronto, ON		2006 – 2009
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Clinical Research Training Fellowship Orthopaedic Research and Education Foundation /American Academy of Orthopaedic Surgeons		2006 – 2008
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Postgraduate Medical Training – Clinical Fellowships

University of California, San Francisco San Francisco, CA	Spinal Fellowship	2008 – 2009
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Royal Adelaide Hospital Adelaide, Australia	AO Spine Fellowship	2006
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HOSPITAL APPOINTMENTS

Assistant Clinical Professor, Department of Orthopaedic Surgery University of California at Irvine, Orange, CA	2010 – Present
Chief, Orthopaedic Spine Surgery Santa Clara Valley Medical Center, San Jose, CA	2010
Visiting Assistant Professor, Department of Orthopaedic Surgery University of California, San Francisco, CA	2009 – 2010
Orthopaedic Surgeon, Trillium Health Centre, Mississauga, ON	2006 – 2008

HONOURS AND AWARDS

Deborah Scarlett Award for Outstanding Paper, Canadian Spine Society	2009
Peterborough K.M. Hunter Graduate Studentship, University of Toronto	2008–2009
Ontario Graduate Scholarship (declined), University of Toronto	2006
OREF/AAOS Clinical Research Training Fellowship	2006–2008
AstraZeneca Resident Research Award for Best Paper Kennedy Day Visiting Orthopaedic Professorship, University of Toronto	2005
Resident Leader, AOA-OREF-Zimmer Resident Leadership Forum	2005
A.W. Harrison Award for Excellence in Teaching Sunnybrook Health Sciences Centre, University of Toronto	2004
First Place Winner, Community Health Research Day, University of Toronto	1998
Institute of Medical Science Summer Scholarship, University of Toronto	1997
Ontario Graduate Scholarship, University of Toronto	1996-1997
Open Master's Fellowship, University of Toronto	1995-1996
Earl Arscott Memorial Scholarship. University of Western Ontario.	1993
University of Western Ontario In-Course Scholarship	1993

RESEARCH FUNDING – PEER REVIEWED

Principal Investigator Orthopaedic & Arthritic Institute Musculoskeletal Research Program. Bederman SS , Kreder HJ, Yee AJM, Finkelstein JA, Weller I <i>How does health care delivery impact outcomes for lumbar spinal surgery?</i>	\$15,000	2005-2006
Clinical Research Training Fellowship Orthopaedic Research and Education Foundation/American Academy of Orthopaedic Surgeons	\$140,000	2006-2008

Co-Applicant \$74,988.58 2007-2009
 Ontario Neurotrauma Foundation/Ontario Ministry of Health and Long-Term Care.
 Wright JG, **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ
Variation in patient and physician attitudes towards lumbar spinal stenosis and their influence on regional surgical rates.

Principal Investigator 2011
 Clinical and Translational Science Institute (NIH), University of California at Irvine
Bederman SS
University of California Surgical Spine Collaborative – Team Building Conference

PEER-REVIEWED PUBLICATIONS

1. **Bederman SS**, Betsy M, Winiarsky R, Sharrock NE, Sculco TP: Postoperative ileus in the lower extremity arthroplasty patient. *Journal of Arthroplasty* 2001; 16(8): 1066-70.
2. **Bederman SS**, Anastakis DJ: Giant arteriovenous fistula of the upper extremity following a distal radius fracture: a rare complication following a common problem. *Journal of Trauma, Infection, and Critical Care* 2007; 63(2): E30-3.
3. **Bederman SS**, Kreder HJ, Weller I, Finkelstein JA, Ford MH, Yee AJM: The who, what, and when of surgery for the degenerative lumbar spine. A population-based study of surgeon factors, surgical procedures, recent trends and reoperation rates. *Canadian Journal of Surgery* 2009; 52(4):283-90.
4. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in patients with multiple long-bone fractures?: A meta-analysis. *Canadian Journal of Surgery* 2009; 52(5): 386-93.
5. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG. In the eye of the beholder: Preferences of patients, family physicians, and surgeons for lumbar spinal surgery. *Spine* 2010; 35(1):108-15.
6. Omoto DM, **Bederman SS**, Yee AJ, Kreder HJ, Finkelstein JA. How do validated measures of functional outcome compare with commonly used outcomes in administrative database research for lumbar spinal surgery? *European Spine Journal* 2010; 19(8):1369-77.
7. **Bederman SS**, Chundamala J, Wright JG. Randomized clinical trials in orthopaedic surgery. The problems with quantity and quality. *Journal of the American Academy of Orthopaedic Surgeons* 2010; 18(8):454-63.
8. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: Referral practices for spinal surgery are poorly predicted by clinical guidelines and opinions of primary care physicians. *Medical Care* 2010; 48(9):852-858.
9. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG. Who's in the driver's seat? The influence of patient and physician enthusiasm on regional variation in degenerative lumbar spinal surgery: a population-based study. *Spine* 2011; 36(6):481-489.
10. **Bederman SS**, Murnaghan O, Malempati H, Lansang E, Wilkinson M, Johnston E, Bronstein Y, Finkelstein JA, Yee AJM. In-hospital mortality and surgical utilization in severely polytraumatized patients with and without spinal injury. *Journal of Trauma, Injury, Infection and Critical Care* 2011 Mar 10. [Epub ahead of print]
11. Ames CP, Smith JS, Scheer JK, Bess S, **Bederman SS**, Deviren V, Lafage V, Schwab F, Shaffrey CI. Impact of Spino-Pelvic Alignment on Decision Making in Adult Deformity Surgery. *Journal of Neurosurgery: Spine* [submitted SPINE11-320]

INVITED COMMENTARIES

1. **Bederman SS.** Predicting prognosis in sick-listed low back pain patients: sneaking a peak inside the black box. *The Spine Journal* 2010; 10(8): 728-30.
2. **Bederman SS,** Rosen CD, Bhatia NN, Kiester PD, Gupta R. Drivers of surgery for the degenerative hip, knee and spine: a systematic review. *Clinical Orthopaedics and Related Research* [under revision CORR-D-10-01484].
3. **Bederman SS.** Towards a unified model for investigating health service use in degenerative spinal disorders. *The Spine Journal* [in press SPINEE-D-11-00145]

BOOK CHAPTERS

1. **Bederman SS,** Rampersaud YR: “Do Bone Morphogenetic Proteins Improve Spinal Fusion?” in *Evidence-Based Orthopaedics – The Best Answers to Clinical Questions*, Wright JG. Philadelphia, PA: Saunders/Elsevier; 2009.
2. Rampersaud YR, **Bederman SS:** “C2 Traumatic Spondylolisthesis (Hangman’s Fracture) and Other Variants.” in *Spine and Spinal Cord Trauma: Evidence-Based Management*, Vaccaro AR, Fehlings MG, Dvorak MF. New York: Thieme; 2010.
3. **Bederman SS,** Gibson A: “Heterogeneity” in *Advanced Concepts in Surgical Research*, Bhandari M, Robionek B. Stuttgart, Germany: Thieme [in press]
4. **Bederman SS,** Ames CP, Deviren V: “Sagittal Osteotomy for En Bloc Resection of Lateralized Tumors” in *Spine and Spinal Cord Tumors: Advanced Management and Operative Techniques*. [in press]

THESIS PUBLICATION

1. **Bederman SS:** Estimation methods in random coefficient regression for continuous and binary longitudinal data (Master’s Thesis). National Library of Canada: Ottawa 1997. <http://hdl.handle.net/1807/11671>
2. **Bederman SS:** Patient preferences, referral practices, and surgeon enthusiasm for degenerative lumbar spinal surgery (PhD Thesis). National Library of Canada: Ottawa 2010. <http://hdl.handle.net/1807/24337>

SCIENTIFIC PRESENTATIONS

1. **Bederman SS,** Waddell JP, Mahomed N, Davey JR, Davis AM, Gross AE, Dabby D, Kreder HJ, Schemitsch EH: Functional outcome following periprosthetic fractures around total hip arthroplasty. Canadian Orthopaedic Association, Edmonton, AB, 2000.
2. **Bederman SS,** Waddell JP, Mahomed N, Davey JR, Davis AM, Gross AE, Dabby D, Kreder HJ, Schemitsch EH: Functional outcome following periprosthetic fractures around total hip arthroplasty. International Society for Fracture Repair, Hong Kong, China, 2000.
3. **Bederman SS,** Anastakis DJ: Giant arteriovenous fistula of the upper extremity following a distal radius fracture: a rare complication following a common problem. Canadian Society of Plastic and Reconstructive Surgeons, Annual MANUS Meeting, Hamilton, ON, 2004.
4. **Bederman SS,** Kreder HJ, Weller I, Finkelstein JA, Ford M, Yee AJ: Trends in lumbar spinal fusion and surgeon factors in spinal surgery. Canadian Spine Society, Lake Louise, AB. 2006.
5. **Bederman SS,** Kreder HJ, Weller I, Finkelstein JA, Ford M, Yee AJ: Trends in lumbar spinal fusion and surgeon factors in spinal surgery. Spine Across the Sea (North American Spine Society, Japanese Spine Research Society), Maui, Hawaii, 2006.
6. **Bederman SS,** Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?: a meta-analysis. Canadian Orthopaedic Association, Halifax, NS, 2007.

7. **Bederman SS**, Kreder H, Weller I, Finkelstein J, Ford M, Yee A: Trends in lumbar spinal fusion & surgeon factors in spinal surgery. Canadian Orthopaedic Association, Halifax, NS, 2007.
8. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?: a meta-analysis. (American College of Surgeons, Committee on Trauma Resident Paper Competition) Canadian Surgical Forum, Canadian Association of General Surgeons, Toronto, ON, 2007.
9. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. Canadian Spine Society, Gatineau, QC, 2009. [Received Deborah Scarlett Award for Outstanding Paper]
10. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. Global Spine Congress, San Francisco, CA, 2009.
11. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. Canadian Orthopaedic Association, Whistler BC, 2009.
12. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine (Focused Paper). North American Spine Society, San Francisco, CA, 2009.
13. You JJ, Symons S, **Bederman SS**, Rampersaud YR: Healthcare utilization following primary care physician ordered MRI of the lumbar spine. Canadian Spine Society, Lake Louise, AB, 2010.
14. **Bederman SS**. Two-level XLIF Corpectomy: a report of two cases. Society of Lateral Access Surgeons, Del Mar, CA, 2011.

POSTER PRESENTATIONS

1. **Bederman SS**, Corey PN: Estimation methods in random coefficient regression for continuous and binary longitudinal data. Community Health Research Day, University of Toronto, 1998
2. **Bederman SS**, Corey PN: Estimation methods in random coefficient regression for continuous and binary longitudinal data. Canadian Association of Teachers of Community Health in conjunction with the Canadian Public Health Association, Montreal, QC, 1998
3. **Bederman SS**, Schemitsch EH, Richards RR, Waddell JP: Prediction of revision to total hip arthroplasty based on the St. Michael's hip scoring system. Institute of Medical Science Undergraduate Research Program, University of Toronto, 1998
4. Schemitsch EH, **Bederman SS**, Waddell JP: How do traditional hip scoring systems correlate with validated disease-specific and general health outcome measures? American Academy of Orthopaedic Surgeons, Orlando, FL, 2000
5. Schemitsch EH, **Bederman SS**, Waddell JP: How do traditional hip scoring systems correlate with validated disease-specific and general health outcome measures? Canadian Orthopaedic Association, Edmonton, AB, 2000
6. **Bederman SS**, Anastakis DJ: Giant arteriovenous fistula of the upper extremity following a distal radius fracture: a rare complication following a common problem. American Association for Hand Surgery, Palm Springs, CA, 2004
7. Angelini M, Rampersaud YR, Farooq S, **Bederman S**, Chung F, Bernstein M: Acute postoperative pain following outpatient lumbar microdiscectomy: an assessment of 2 different microsurgical approaches. Canadian Spine Society, Beaupre, QC, 2005
8. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk

- of fat embolism syndrome in multi-trauma patients?: a meta-analysis. Orthopaedic Trauma Association, Ottawa, ON, 2005
9. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?: a meta-analysis. International Society for Fracture Repair, Adelaide, Australia, 2006
 10. **Bederman SS**, Kreder HJ, Weller I, Finkelstein JA, Ford M, Yee AJ: Trends in lumbar spinal fusion and surgeons in spinal surgery. International Society for the Study of the Lumbar Spine, Bergen, Norway, 2006
 11. Murnaghan O, Lansang E, **Bederman SS**, Weller I, Bronstein Y, Ford M, Finkelstein JA, Yee AJ: A matched-cohort study of severely polytraumatized patients with and without spinal injury presenting to a Level I trauma institution. Canadian Spine Society, Sun Peaks, BC, 2008
 12. **Bederman SS**, Wright JG, McIsaac WM, Coyte PC, Mahomed NN, Kreder HJ: Consensus interpretation of a guideline's recommendation for spinal surgical referral. Institute of Medical Science Scientific Day, University of Toronto, 2008
 13. Murnaghan O, Lansang E, **Bederman SS**, Weller I, Bronstein Y, Ford M, Finkelstein JA, Yee AJ: A matched-cohort study of severely polytraumatized patients with and without spinal injury presenting to a Level I trauma institution. North American Spine Society, Toronto ON, 2008
 14. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: How do primary care surgical referral practices compare with stated preferences and consensus interpretation of guidelines for degenerative lumbar spinal patients? Canadian Spine Society, Gatineau, QC, 2009
 15. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG: Regional variation in rates of surgery for the degenerative lumbar spine and the influence of patient and physician enthusiasm. Canadian Spine Society, Gatineau, QC, 2009
 16. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG: Regional variation in rates of surgery for the degenerative lumbar spine and the influence of patient and physician enthusiasm. International Society for the Study of the Lumbar Spine, Miami, FL, 2009 (Special Emphasis Poster)
 17. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: How do primary care surgical referral practices compare with stated preferences and consensus interpretation of guidelines for degenerative lumbar spinal patients? International Society for the Study of the Lumbar Spine, Miami, FL, 2009
 18. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. International Society for the Study of the Lumbar Spine, Miami, FL, 2009
 19. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: How do primary care surgical referral practices compare with stated preferences & consensus interpretation of guidelines for degenerative lumbar spinal patients? Global Spine Congress, San Francisco, CA, 2009
 20. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG: Regional variation in rates of surgery for the degenerative lumbar spine and the influence of patient and physician enthusiasm. Global Spine Congress, San Francisco, CA, 2009

INVITED LECTURES

1. Joint University of Toronto–Ontario Cancer Institute/Princess Margaret Hospital–Ontario Cancer Treatment & Research Foundation Seminar Series, University of Toronto, 1996
“Functional spatial autocorrelation for irregularly spaced longitudinal data”

2. Institute of Medical Science Undergraduate Research Day, University of Toronto, 1998
“Prediction of revision to total hip arthroplasty based on the St. Michael’s Hip Scoring System”
3. Diagnostic Hearing Guideline Development Task Force, College of Physicians and Surgeons of Ontario, Toronto, ON, 1999. “Auditory Brainstem Response sensitivity for small acoustic neuromas: a meta-analysis”
4. Combined Vascular Surgery – Interventional Radiology Rounds, St. Michael’s Hospital, Toronto, ON, 2002. “Peripheral vascular trauma”
5. Combined Orthopaedic Rounds, Sunnybrook Health Sciences Centre/Orthopaedic & Arthritic Institute, Toronto. 2002. “Primary total hip arthroplasty in displaced femoral neck fractures”
6. Orthopaedic Research Day, University of Toronto. 2004. “Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?:a meta-analysis”
7. Orthopaedic Resident’s Down Day Lecture Series, University of Toronto. 2004.
“Rheumatoid arthritis of the spine”
8. Orthopaedic School, University of Toronto. 2004. “Fat embolism syndrome”
9. Upper Extremity Rounds, St. Michael’s Hospital, Toronto, 2005. “Disorders of the Distal Radioulnar Joint”
10. Foot & Ankle Rounds, St. Michael’s Hospital, Toronto, 2005. “Talus Fractures”
11. Upper Extremity Rounds, St. Michael’s Hospital Toronto. 2005. “Acute Scaphoid Fractures”
12. Foot & Ankle Rounds, St. Michael’s Hospital, Toronto, 2005. “Calcaneus Fractures”
13. Foot & Ankle Rounds, St. Michael’s Hospital, Toronto, 20/05. “Nerve Compression Syndromes in the Foot and Ankle”
14. Orthopaedic School, University of Toronto. 2005. “Fat embolism syndrome”
15. Orthopaedic Rounds, Orthopaedic and Arthritic Institute, Sunnybrook Health Sciences Centre, Toronto. 2005. “Disorders of the Distal Radioulnar Joint”
16. Orthopaedic Resident’s Down Day Lecture Series, University of Toronto. 2004. “Disorders of the Distal Radioulnar Joint”
17. Kennedy Visiting Professorship, Division of Orthopaedic Surgery, University of Toronto. 2005.
“How do Surgeon Factors Impact on Outcomes for Lumbar Spinal Surgery?”
18. Orthopaedic Rounds, Hospital for Sick Children, Toronto. 2006. “Clubfoot & Congenital Vertical Talus”
19. Orthopaedic Rounds, Hospital for Sick Children, Toronto. 2006. “Leg Length Discrepancy”
20. Orthopaedic Rounds, Hospital for Sick Children, Toronto. 2006. “Syndromes and their Orthopaedic Relevance”
21. Spine Conference, Royal Adelaide Hospital, Adelaide, Australia. 2006. “Trends in lumbar spinal fusion and surgeons factors in spinal surgery”.
22. Knowledge Translation Research Group, Child Health Evaluative Sciences, Hospital for Sick Children, Toronto. 2007. “Variation in patient and physician attitudes towards lumbar spinal stenosis and their influence on regional surgical rates”
23. Biostatistical Methodology Unit Journal Club, Child Health Evaluative Sciences, Hospital for Sick Children, Toronto. 2008. “Conjoint Analysis”
24. Institute for Clinical Evaluative Sciences Academic Rounds, Sunnybrook Hospital, Toronto. 2008. “Area variation in surgical rates for the degenerative lumbar spine and the influence of patient and physician attitudes”.
25. Spine Trauma Rounds, San Francisco General Hospital, San Francisco, CA 2009. “Injuries to the Upper Cervical Spine”
26. Grand Rounds, Department of Orthopaedic Surgery, University of California at San Francisco, San Francisco, CA 2009. “Variation in attitudes and treatments for degenerative disease of the lumbar spine: who you see is what you get!”

27. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2010. "Variation in attitudes and treatments for degenerative disease of the lumbar spine: who you see is what you get!"
28. One Call Medical University Webinar, 2010. "Treatment of Common Workplace Injuries of the Neck and Back"
29. Grand Rounds, Department of Family and Community Medicine, University of California at Irvine, Santa Ana, CA 2010. "Approach to the Patient with Neck Pain"
30. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2010. "Lateral Approach for Lumbar Fusion"
31. Intraoperative Neurophysiological Monitoring Rounds, University of California at Irvine, Orange, CA 2010. "Surgical Correction of Adult Scoliosis and Spinal Deformity"
32. Comparative Effectiveness Research Symposium, University of California at Irvine, Irvine, CA 2011. "Surgical Treatment of Spinal Disorders"
33. St. Vincent's Medical-Surgical Grand Rounds, Los Angeles, CA 2011. "Adult Scoliosis and Kyphosis"
34. Keynote Speaker. 12th International Phillip Zorab Symposium, British Scoliosis Research Foundation – Institute de France Fondation Yves Cotrel, London, UK 2011. "Surgical Treatment of Adult Scoliosis: Where have we been and where are we going?"

LICENSES AND CERTIFICATIONS

Licentiate of the Medical Council of Canada	2002
Fellow, Royal College of Surgeons of Canada (Orthopaedic Surgery)	2006
College of Physicians and Surgeons of Ontario	2006
American Board of Orthopaedic Surgery (Part 1)	2007
United States Medical Licensing Examination	2007
Medical Board of California	2008

EDITORIAL BOARDS

Journal of the Canadian Chiropractic Association	2008 – Present
BMC Musculoskeletal Disorders	2011 – Present

MANUSCRIPT REVIEWER

Journal of the Canadian Chiropractic Association	2001 – Present
Canadian Medical Association Journal	2008 – Present
Medical Care	2009 – Present
Journal of Emergencies, Trauma, and Shock	2010 – Present
Spine	2010 – Present
Clinical Orthopaedics and Related Research	2010 – Present
British Medical Journal	2010 – Present

ACADEMIC AND COMMITTEE POSITIONS

Research Committee, Division of Orthopaedic Surgery, University of Toronto	2002–2006
Residency Selection Committee, Orthopaedic Surgery, University of Toronto	2004–2005
Task Force on Clinical Fellows, Department of Surgery, University of Toronto	2005–2006
Research Ethics Day Development Committee, Clinician Investigator Program University of Toronto	2006–2007
Bone and Joint Decade Canada. Hip and Knee Replacement Toolkit	2009
Director, Orthopaedic Inpatient Services, UC Irvine Medical Center	2010 – Present

PROFESSIONAL MEMBERSHIP

American Academy of Orthopaedic Surgeons (AAOS), Candidate Member
 American Orthopaedic Association (AOA), Emerging Leaders Program
 AO Spine
 Canadian Orthopaedic Association (COA)
 Cochrane Back Review Group
 International Society for Study of the Lumbar Spine (ISSLS)
 North American Spine Society (NASS)
 Ontario Medical Association (OMA), Canadian Medical Association (CMA)
 Royal College of Physicians and Surgeons of Canada (RCPSC)
 Society of Lateral Access Surgeons (SOLAS)

CONTINUING EDUCATION

Advanced Trauma Life Support (ATLS)	2001
AO/ASIF Basic Principles & Techniques of Operative Fracture Mgmt	2004
University of Calgary Technical Aspects of Spine Surgery Course	2005
Canadian Orthopaedic Association (COA) Basic Science Course	2005
Canadian Orthopaedic Resident Forum, Calgary, AB	2006
AO/ASIF Advanced Principles & Techniques of Operative Fracture Mgmt.	2006
Human Participant Protections Education for Research Teams (NIH) [online]	2007
Introductory Tutorial for the Tri-Council Policy Statement	2008
Ethical Conduct for Research Involving Humans (TCPS) [online]	
AOSpine Advanced Technologies in Pediatric Spine Surgery	2010

TEACHING EXPERIENCE**Postgraduate Teaching**

Chief Resident, Toronto East General Hospital	2003
Senior Resident, Toronto Western Hospital, University Health Network	2003
Chief Resident, Mount Sinai Hospital, Toronto	2004
Senior Resident, Toronto Western Hospital, University Health Network	2004
Senior Resident, Sunnybrook Health Sciences Centre, Toronto	2004
Lecturer & Demonstrator, Orthopaedic School, University of Toronto	2004
Chief Resident, St. Michael's Hospital, Toronto	2005
Chief Resident, Mount Sinai Hospital, Toronto	2005
Lecturer & Demonstrator, Orthopaedic School, University of Toronto	2005
Senior Resident, Hospital for Sick Children, Toronto	2006

Graduate Teaching

Course Designer & Teaching Assisant (Biostatistics for Health Scientists)	1997
Institute of Medical Science, University of Toronto	
Teaching Assistant (Categorical Data Analysis)	1997
Department of Public Health Sciences, University of Toronto	

Undergraduate Teaching

Teaching Assistant, Department of Mathematics, U. of Western Ontario	1994
Teaching Assistant, Department of Statistics, University of Toronto	1995
Teaching Assistant, Department of Mathematics, University of Toronto	1995-1996