

DOUGLAS WU MD PHD

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San Diego CA 92121

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dwu@clderm.com**DERMATOLOGIST ASSOCIATE AND DIRECTOR OF RESEARCH****Goldman, Butterwick, Groff, Fabi and Wu Cosmetic Laser Dermatology 2015-current**

9339 Genesee Avenue, Suite 300

San Diego CA 92121

EDUCATION**Fellow and Director of Research 2014-2015**

Cosmetic Dermatologic Surgery Fellowship

American Society of Dermatologic Surgery

Fellowship Director: Mitchel Goldman, MD

San Diego, California

University of Alberta

Dermatology Resident

2009-2014

Division of Dermatology, Department of Medicine

Fellow of the Royal College of Physicians of Canada (FRCPC)**Fellow of the American Academy of Dermatology (FAAD)****University of Alberta**

MD/PhD Program

Faculty of Medicine and Dentistry

2007-2009**University of Oxford**

Doctor of Philosophy in Immunology (PhD)

Nuffield Department of Surgery

2004-2007**University of Alberta**

Doctor of Medicine (MD)

Faculty of Medicine and Dentistry

2002-2004**University of Toronto**

Bachelor of Science with High Distinction (BSc)

Faculty of Arts and Science

1999-2002

PUBLICATIONS

1. Wat H, **Wu DC**, Goldman MP. Non-invasive body contouring: a male perspective. *Dermatologic Clinics* 2018 36(1); 49-55.
2. Kinney BM, Andriessen A, DiBarnardo BE, Bloom J, Branson DF, Gentile RD, Goldberg DJ, Lorenc PZ, Nestor M, **Wu DC**. Use of a controlled subdermal radiofrequency thermistor for treating the aging neck: consensus recommendations. *Journal of Cosmetic and Laser Therapy* 2017 19(8); 444-450.
3. Wilson MJV, Jones IT, Bolton J, Larsen L, **Wu DC**, Goldman MP. Prospective studies of the efficacy and safety of the picosecond 755, 1064, and 532 nm lasers for the treatment of infraorbital dark circles. *Lasers in Surgery and Medicine* 2017.
4. Wilson MJV, Jones IT, Bolton J, Larsen L, **Wu DC**, Goldman MP. A randomized, investigator blinded comparison of two topical regimens in Fitzpatrick skin types III-IV with moderate to severe facial hyperpigmentation. *Journal of Drugs in Dermatology* 2017 16(11); 1127.
5. **Wu DC**, Goldman MP. Successful treatment of chronic venous stasis hyperpigmentation of the lower limbs with the picosecond alexandrite laser. *Dermatologic Surgery* 2017.
6. Jones IT, Guiha I, Goldman MP, **Wu DC**. A randomized, evaluator-blinded trial comparing subsurface monopolar radiofrequency with microfocused ultrasound for lifting and tightening of the neck. *Dermatologic Surgery* 2017.
7. **Wu DC**, Guiha I, Goldman MP. A prospective pilot clinical trial to evaluate the efficacy and safety of topical therapy with ingenol mebutate gel 0.015% for actinic keratosis on an expanded area of the chest. *The Journal of Clinical and Aesthetic Dermatology* 2017 10(8); 31.
8. **Wu DC**, Goldman MP. A prospective, randomized, double-blind, split-face clinical trial comparing the efficacy of two topical human growth factors for the rejuvenation of the aging face. *The Journal of Clinical and Aesthetic Dermatology* 2017 May; 10(5).
9. Vanaman Wilson MJ, Jones IT, **Wu DC**, Goldman MP. A randomized, double-blind, placebo-controlled clinical trial evaluating the role of systemic antihistamine therapy for the reduction of adverse events associated with topical 5-aminolevulinic acid photodynamic therapy. *Lasers in Surgery and Medicine* 2017 May 10 [Epub ahead of print]

10. Vanaman Wilson MJ, Alkhonizi S, **Wu DC**. Successful treatment of undereye pigmentation in skin type IV with a picosecond alexandrite laser with diffractive lens array. *Dermatologic Surgery* 2017 Feb 1 [Epub ahead of print].
11. Boen M, Wilson MJ, Goldman MP, **Wu DC**. Rejuvenation of the male scalp using 1927 nm non-ablative fractional thulium fiber laser. *Lasers in Surgery and Medicine* 2017 Jan 24 [Epub ahead of print].
12. **Wu DC**, Goldman MP. A topical anti-inflammatory healing regimen utilizing conjugated linolenic acid for use post-ablative laser resurfacing of the face: a randomized, controlled trial. *The Journal of Clinical and Aesthetic Dermatology* 2017 10(10); 12-17.
13. Guss L, Goldman MP, **Wu DC**. Picosecond 532 nm Neodymium-Doped Yttrium Aluminum Garnet Laser for the Treatment of Solar Lentigines in Darker Skin Types: Safety and Efficacy. *Dermatologic Surgery* 2016 Sep 21 [Epub ahead of print].
14. Wat H, **Wu DC**, Chan HHL. Fractional resurfacing in the Asian patient: Current state of the art. *Lasers in Surgery and Medicine* 2016 Sep 8 [Epub ahead of print].
15. Dendle J, **Wu DC**, Fabi SG, Belo D, Goldman MP. A retrospective evaluation of subsurface monopolar radiofrequency for lifting of the face, neck, and jawline. *Dermatologic Surgery* 2016 Aug 31 [Epub ahead of print].
16. **Wu DC**, Goldman MP. The efficacy of massage in reducing nodule formation after poly-L-lactic acid administration for facial volume loss: a randomized, evaluator blinded clinical trial. *Dermatologic Surgery* 2016 Sep 9 [Epub ahead of print].
17. **Wu DC**, Liolios AM, Fletcher L, Guiha I, Goldman MP. Subdermal radiofrequency for skin tightening of the posterior upper arms. *Dermatologic Surgery* 2016 Sep; 42(9):1089-93.
18. **Wu DC**, Goldman MP. Adventures in liposculpture: the tale of the missing canula. *Dermatologic Surgery* 2016 Sept 2 [Epub ahead of print].
19. **Wu DC**, Green JB. Rejuvenation of the aging arm: multimodal combination therapy for optimal results. *Dermatologic Surgery* 2016 May; 42 Suppl 2:S119-23.

20. **Wu DC**, Fitzpatrick RE. Facial rejuvenation via the sequential combined use of multiple laser modalities: safety and efficacy. *Lasers in Surgery and Medicine* 2016 August;48(6):577-83.
21. **Wu DC**, Fitzpatrick RE, Goldman MP. Confetti-like sparing: a diagnostic clinical feature of melasma. *Journal of Clinical and Aesthetic Dermatology* 2016;9(2):48–57.
22. DiGiorgio CM, **Wu DC**, Goldman MP. Successful treatment of argyria using the picosecond alexandrite laser. *Dermatologic Surgery* 2016 Mar;42(3):431-3.
23. **Wu DC**, Fabi SG, Goldman MP. Neurotoxins: current concepts in cosmetic use on the face and neck – lower face. *Plastic and Reconstructive Surgery* 2015 Nov;136(5 Suppl):76S-9S.
24. **Wu DC**, Fletcher L, Guiha I, Goldman MP. Evaluation of the safety and efficacy of the picosecond alexandrite laser with specialized lens array for treatment of the photoaging décolletage. *Lasers in Surgery and Medicine* 2016 Feb;48(2):188-92.
25. Friedmann DP, Liolios AM, **Wu DC**, Goldman MP, Eimpunth S. A randomized, double-blind, placebo-controlled study of the effect of a high potency topical corticosteroid after sclerotherapy for reticular and telangiectatic veins of the lower extremities. *Dermatologic Surgery* 2015 Oct;41(10):1158-63.
26. Wat H, **Wu DC**, Mahmood NM, Brassard A. Pseudoxanthoma elasticum-like plaques: a rare cutaneous manifestation of primary systemic amyloidosis. A case report and review of the literature. *JAMA Dermatology*. 2014 Oct;150(10):1091-4.
27. Wat H, **Wu DC**, Rao J, Goldman MP. Application of intense pulsed light in the treatment of dermatologic disease: a systematic review. *Dermatologic Surgery* 2014 Apr; 40(4):359-77.
28. **Wu DC**, Friedmann DP, Fabi SG, Goldman MP, Fitzpatrick RE. A comparison of intense pulsed light versus 1927 nm fractionated thulium fiber laser for the rejuvenation of the chest. *Dermatologic Surgery* 2014 Feb;40(2): 129-33.
29. **Wu DC**, Salopek TG. Eruptive condyloma accuminata after initiation of infliximab treatment for folliculitis decalvans. *Case Reports in Dermatology* Dec 4, 2013.
30. **Wu DC**, Hester J, Nadig SN, Zhang W, Trzonkowski P, Gray D, Johnson P, Wood KJ. Ex-vivo expanded human regulatory T cells can prolong survival of a human islet

- allograft in a humanized mouse model. *Transplantation*. 2013 Oct 27;96(8):707-716.
31. **Wu DC**, Chan W, Metelitsa AI, Fiorillo L, Lin A. Pseudomonas skin infections: clinical features, epidemiology, and treatment. *The American Journal of Clinical Dermatology*. 2011 Jun 1;12(3):157-69.
32. Nadig SN, Weickiewicz J, **Wu DC**, Warnecke G, Zhang W, Luo S, Schiopu A, Taggart DP, Wood KJ. In vivo prevention of transplant arteriosclerosis by ex vivo expanded human regulatory T cells. *Nature Medicine*. 2010 Jul;16(7):809-13.
33. **Wu DC**, Metelitsa AI, Rao J. Chronic ulceration of the lower limb: a practical approach to diagnosis, management, and prevention. *The Canadian Journal of Continuing Medical Education* 2009.
34. **Wu DC**, Feng G, Wood KJ. Approaches to immunological tolerance and potential application to islet transplantation. Pancreas, Islet and Stem cell transplantation for the cure of diabetes (Second Edition) edited by Professor Nadey Hakim, Professor Robert Stratta, Professor Derek Gray, Professor Peter Friend and Professor Alan Coleman; Oxford University Press January 2009.
35. **Wu DC**, Boyd AS, Wood KJ. Embryonic stem cells possess a fragile immune privilege, but still represent novel targets of immune attack. *Stem Cells*. 2008 Aug;26(8):1939-50.
36. Boyd AS, **Wu DC**, Wood KJ. A Comparison of Protocols used to Generate Insulin-producing Cell Clusters from Mouse Embryonic Stem Cells. *Stem Cells*. 2008 May;26(5):1128-37.
37. **Wu DC**, Boyd AS, Wood KJ. "Embryonic stem cell transplantation: potential applicability in cell replacement therapy and regenerative medicine." *Frontiers in Bioscience*. 2007 May 1;12:4525-35.
38. Lakey JR, Kneteman NM, Rajotte RV, **Wu DC**, Bigam D, Shapiro AM. Effect of core pancreas temperature during cadaveric procurement on human islet isolation and functional viability. *Transplantation*. 2002 Apr 15;73(7):1106-10.

CLINICAL TRIALS (PRINCIPLE OR SUB-INVESTIGATOR)

1. Evaluation of the In Vivo Effects of Various Laser, Light, or Ultrasound Modalities on Abdominal Skin Treated with Bellafill®, a Collagen and Polymethylmethacrylate Microsphere Dermal Filler Product

2. A randomized, double-blind, placebo-controlled, prospective clinical trial evaluating the role of systemic antihistamine therapy in the reduction of adverse effects associated with topical 5-aminolevulinic acid photodynamic therapy
3. A multi-center, open label, multiple dose, phase II trial to demonstrate the safety of DWP-450 in adult subjects for treatment of moderate-to-severe glabellar lines
4. A Multi-Center, Randomized, Double-Blinded, Placebo Controlled Study Evaluating the Safety and Efficacy of LIPO-202 for the Reduction of Central Abdominal Bulging
5. A prospective, split-face, randomized, double-blind, trial of stem cell-conditioned serum vs. SkinMedica TNS Essential Serum for reduction of wrinkles
6. A randomized, evaluator-blind, split tattoo trial comparing two picosecond pulsed laser technologies for the removal of unwanted tattoos
7. Comparison Study of the Non-Ablative Fractionated 1565nm ResurFX and the 1064/532nm Picoway Lasers in the Treatment of Striae Alba: A Split Body Double Blinded Trial
8. A Prospective, Open-Label, Multicenter Study to Evaluate the Long-Term Safety of Sculptra® Aesthetic in Immuno-Competent Subjects
9. A double-blind, randomized study of TR-987 for healing after fractionated CO₂ laser resurfacing of the chest
10. Safety and Efficacy of a novel Neck/Décolleté Formulation in Reducing the Appearance of Aged/Photodamaged Skin Surrounding the Neck and Chest Area.
11. A multicenter, single-blind, randomized, controlled study of the safety and effectiveness of JUVÉDERM VOLUMA® XC injectable gel for chin augmentation
12. A randomized, evaluator blinded trial comparing microfocused ultrasound with subsurface monopolar radiofrequency for lifting and tightening of the neck
13. A randomized, split-face, evaluator blind clinical trial comparing monopolar radiofrequency vs microfocused ultrasound with visualization for lifting and tightening of the face and upper neck

14. Evaluation of the Safety and Efficacy of the Picosecond Alexandrite Laser with a Specialized Lens Array for the Treatment of the Photoaging Decolletage
15. A Prospective, Evaluator-Blinded Study of Post-Treatment Self-Massage vs No Massage Following Soft Tissue Augmentation with Injectable Poly-L-Lactic Acid
16. Safety and Efficacy of Escalating Doses of Two LEO 43204 Formulations Applied Once Daily for Two Consecutive Days on Full Face or Approximately 250 cm² on the Chest in Subjects with Actinic Keratosis
17. Safety and Efficacy of Escalating Doses of LEO 43204 Applied Once Daily for Two Consecutive Days on Approximately 250 cm² on Trunk and Extremities in Subjects with Actinic Keratosis
18. A Pilot Prospective Clinical Trial to Evaluate The Efficacy and Safety of Large-Scale Field-Directed Topical Therapy of Actinic Keratosis of the Chest with Ingenol Mebutate 0.015%
19. A Single-Center Investigator-Initiated Double-Blinded Randomized Bilateral Comparison Pilot Study of Injectable Calcium Hydroxylapatite With and Without Triamcinolone Acetate for the Treatment of Volume Loss to Dorsum Areas of the Hands
20. A Phase 3, Randomized, Double-Blind, Parallel-Group, Placebo-Controlled, Multi-Center Study to Evaluate the Efficacy, Safety, and Duration of Effect of RT001 Topical Gel for the Treatment of Moderate to Severe Lateral Canthal Lines in Adults (RADIANT)
21. An Open-Label Study Assessing the Efficacy and Tolerability of a Series of Two Intense Pulsed Light Treatments with a Topical Multimodal Skin Brightener in Subjects with Moderate to Severe Facial Hyperpigmentation
22. An Investigator-Initiated Single-Center Study of the Safety and Efficacy of Treatments Using the ThermiRF™ for Skin Laxity in the Inferior Aspect of the Upper Arms
23. A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate Three Doses of QM1114-DP in the Treatment of Moderate to Very Severe Glabellar Lines

24. The Characterization of the Microbiome in Moderate to Severe Acne before and after Photodynamic Therapy
25. Double blind, placebo-controlled phase 2 clinical trial with cross over to assess safety and clinical effects of Hair Stimulating Complex on hair growth in male subjects with androgenetic alopecia (male pattern hair loss)
26. A randomized, double-blind, placebo-controlled study of the efficacy, safety, and tolerability of serlopitant for the treatment of pruritus in adults and adolescents with a history of atopic dermatitis
27. Improvement in the Appearance of Facial Wrinkles, Contour, Pigmentation and Overall Complexion with Red Deer Umbilical Extract
28. A phase 2, randomized, double blind, placebo-controlled study of EN3835 in the treatment of edematous fibrosclerotic panniculopathy
29. A single center, prospective, randomized, sham controlled, double blind, split face trial using micro-injections of transparent hyaluronic acid gel (Restylane® Silk) for rejuvenation of the aging cheek
30. A randomized, double-blind comparison trial of subcutaneous sodium deoxycholate injections with or without triamcinolone for reduction of submental fat
31. Radiesse® post-approval safety study for the treatment of hands with moderate to very severe dorsal volume loss
32. A Single-Center, Open-Label Study for the Safety and Efficacy of Treatment with Restylane Lyft for Volume Loss in the Temporal Region of the Face
33. A prospective, single-center, investigator-blinded trial to evaluate the safety and efficacy of Secret Micro-Needle Fractional RF System® for the treatment of facial wrinkles
34. Randomized, investigator-blinded comparison study of two topical regimens in subjects with moderate to severe facial hyperpigmentation
35. A single center, prospective, non-randomized study to assess pre- and post-treatment histopathologic changes in vulvovaginal tissue using a transcutaneous temperature controlled radiofrequency device (ThermiVa™)

36. TR-987 vs. Placebo Following Infraorbital Erbium-Yag Ablative Laser Treatment
37. A prospective, randomized, single-center, evaluator-blinded clinical trial evaluating the safety, efficacy, and patient satisfaction of injectable calcium hydroxylapatite (Radiesse Plus®, Merz Aesthetics) in combination with micro-focused ultrasound for rejuvenation of the aging chest

CONFERENCE PRESENTATIONS AND ABSTRACTS

1. **Wu DC**, Jones I, Wilson M, Bolton J, Zaleski-Larsen L, Guiha I, Goldman MP. A randomized, split-face, evaluator-blind clinical trial comparing monopolar radiofrequency to microfocused ultrasound with visualization for lifting and tightening of the face and upper neck. *37th Annual Conference of the American Society of Lasers in Surgery and Medicine*, San Diego CA, April 5-9, 2017.
2. **Wu DC**, Jones I, Wilson M, Guiha I, Goldman MP. A topical anti-inflammatory healing regimen utilizing conjugated linolenic acid for use post-ablative laser resurfacing of the face: a randomized controlled trial. *37th Annual Conference of the American Society of Lasers in Surgery and Medicine*, San Diego CA, April 5-9, 2017.
3. **Wu DC**. Multimodal rejuvenation of the décolletage: a systematic approach. *37th Annual Conference of the American Society of Lasers in Surgery and Medicine*, San Diego CA, April 5-9, 2017.
4. Dibernardo G, Dibernardo B, **Wu DC**. Retrospective analysis of radiofrequency face and neck patients and the importance of pre-treatment mapping of the marginal mandibular nerve. *37th Annual Conference of the American Society of Lasers in Surgery and Medicine*, San Diego CA, April 5-9, 2017.
5. Wilson M, Jones I, **Wu DC**, Goldman MP. A randomized, double-blind, placebo-controlled clinical trial evaluating the role of systemic antihistamine therapy for the reduction of adverse events associated with topical 5-aminolevulinic acid photodynamic therapy. *37th Annual Conference of the American Society of Lasers in Surgery and Medicine*, San Diego CA, April 5-9, 2017.
6. Jones I, Wilson M, **Wu DC**, Guiha I, Goldman MP. A randomized, split-body study evaluating the efficacy of a novel cryolipolysis applicator for the treatment of pseudogynecomastia. *37th Annual Conference of the American Society of Lasers in Surgery and Medicine*, San Diego CA, April 5-9, 2017.

7. **Wu DC**, Karnik J, Margarella T, Nguyen V, Calame A, Goldman MP. Evaluation of the In-vivo Effects of Various Laser, Light, or Ultrasound Modalities on Human Skin Treated with a Collagen and Polymethylmethacrylate Microsphere Dermal Filler. *2016 American Society for Dermatologic Surgery Annual Conference*, New Orleans LA, November 10-13, 2016.
8. **Wu DC**, Goldman MP. A Prospective Double-blinded Randomized Bilateral Comparison Study of Injectable Calcium Hydroxylapatite with and without Triamcinolone Acetate for the Treatment of Volume Loss to the Dorsum Areas of the Hands. *2016 American Society for Dermatologic Surgery Annual Conference*, New Orleans LA, November 10-13, 2016.
9. Wat H, **Wu DC**. A comparison of picosecond Nd:YAG versus picosecond alexandrite laser for the removal of unwanted tattoos. *2016 American Society for Dermatologic Surgery Annual Conference*, New Orleans LA, November 10-13, 2016.
10. **Wu DC**, Bolton J, Zaleski-Larsen L, Goldman MP. A Randomized Evaluator-blind Trial Comparing Microfocused Ultrasound With Subsurface Monopolar Radiofrequency for Lifting and Tightening of the Neck. *2016 American Society for Dermatologic Surgery Annual Conference*, New Orleans LA, November 10-13, 2016.
11. **Wu DC**, Fabi SG. Evaluation of the Ulthera® System for Lifting of the Buttock. *36th Annual Conference of the American Society of Lasers in Surgery and Medicine*, Boston MA, March 30-April 3, 2016.
12. **Wu DC**. ThermiRF: Indications and applications. *2016 American Academy of Dermatology Annual Conference*, Washington DC, March 4-7, 2016.
13. **Wu DC**, Goldman MP. A critical evaluation of new laser and pulsed light technologies. *California Society of Facial Plastic Surgery Winter Symposium*, Lake Tahoe CA, February 2016.
14. **Wu DC**, Goldman MP. Non-invasive body contouring: an overview. *California Society of Facial Plastic Surgery Winter Symposium*, Lake Tahoe CA, February 2016.
15. **Wu DC**, Fabi SG. Evaluation of the Ulthera® System for Lifting of the Buttock. *32nd American Academy of Cosmetic Surgery Conference*, Hollywood FL, January 14-16, 2016.

16. **Wu DC**. Picosecond Nd:YAG laser for the treatment of tattoos and pigmented lesions. *The Aesthetic Academy Conference*, Oct 2015.
17. **Wu DC**, Goldman MP. A Single-Center Investigator-Initiated Double-Blinded Randomized Bilateral Comparison Pilot Study of Injectable Calcium Hydroxylapatite With and Without Triamcinolone Acetate for the Treatment of Volume Loss to Dorsum Areas of the Hands. *2015 American Society for Dermatologic Surgery Annual Conference*, Chicago IL, October 15-18, 2015.
18. **Wu DC**, Goldman MP. Evaluation of the safety and efficacy of the picosecond alexandrite laser with specialized lens array for treatment of the photoaging décolletage. *35th Annual Conference of the American Society of Lasers in Surgery and Medicine*, Kissimmee, FL, April 22-26, 2015.
19. Kurian A, **Wu DC**, Fitzpatrick RE. Facial rejuvenation via the sequential use of laser. *89th Annual Canadian Dermatology Association Conference*, Toronto Canada, June 25-28, 2014.
20. **Wu DC**, Fiorillo L. Successful treatment of life-threatening toxic epidermal necrolysis with N-acetylcysteine in an infant. *12th World Congress of Pediatric Dermatology*, Madrid Spain, September 25-27, 2013.
21. **Wu DC**, Brassard A. Neoplastic ulcers in the setting of radiation therapy: special considerations for adequate wound care and healing. *88th Annual Canadian Dermatology Association Conference*, Quebec City Canada, June 27-30, 2013.
22. **Wu DC**, Wood KJ. Human regulatory T cells prevent the rejection of a human islet allograft. *2008 Canadian Society of Clinical Investigation, Youth Investigator's Forum*, Toronto Canada, September 24-25, 2008.
Awarded best poster prize
23. **Wu DC**, Wood KJ. The immunobiology of embryonic stem cells. *2007 Canadian Society of Clinical Investigation, Youth Investigator's Forum*, Winnipeg Canada, September 27-29, 2007.
24. **Wu DC**, Boyd AS, Wood KJ. The derivation and characterization of insulin-producing cell clusters from embryonic stem cells. *2005 Canadian Society of Clinical Investigation, Youth Investigator's Forum*, Vancouver Canada, September 22, 2005.

ACADEMIC AWARDS

<u>American Society of Dermatologic Surgery Cutting Edge Research Grant</u> <i>Value: \$10 000</i>	Sept 2015
<u>Best Poster Presentation Award, Canadian Society of Clinical Investigation</u> <i>Value: \$50</i>	Sept 2008
<u>Canadian Institutes of Health Research MD/PhD Studentship</u> <i>Value: \$20 000</i>	2007 – 2009
<u>Clarendon Scholarship, University of Oxford</u> <i>Value: \$30 000 per year for three years</i>	2004 – 2007
<u>Hector Pilling Scholarship, University of Oxford</u> <i>Value: \$10 000 per year for three years</i>	2004 – 2007
<u>AHFMR Summer Studentship, University of Alberta</u> <i>Value: \$5000 per year</i>	2000 – 2003
<u>Dean's List, University of Toronto</u> <i>Value: \$0</i>	1999 – 2002
<u>Fairfax Financial Ltd. Scholarship, University of Toronto</u> <i>Value: \$15 000</i>	1999 – 2002
<u>National Biology Competition Scholarship, University of Toronto</u> <i>Value: \$5000</i>	1999 – 2002
<u>University of Toronto Scholar, University of Toronto</u> <i>Value: \$3000</i>	1999 – 2002
<u>St. Michael's College Foundation Scholarship, University of Toronto</u> <i>Value: \$8000</i>	1999 – 2002
<u>Alexander Rutherford Scholarship, Alberta Heritage Foundation</u> <i>Value: \$2500</i>	1996 – 1999

ACCOMPLISHMENTS

Concert Piano

Formally trained for 10 years with the Royal Conservatory of Music, achieving an Associate of the Royal Conservatory of Music, University of Toronto Performer's Diploma in Piano

Multiple award winning performances at the annual Edmonton Kiwanis Music Festival Competitions

Chess

Pan American Intercollegiate Chess Championships, University of Toronto Team Member **2000**

3 time under 19 Alberta Chess Champion

2 time under 16 Alberta Chess Champion

9 time Alberta Provincial Grade Level Chess Champion

Sport

University of Oxford Varsity Badminton Squad, Dark Blue **2004-2007**

Top 20 Alberta provincial ranking in badminton Men's Singles

2007-2012