

JESSICA LYNN HADWIN PHILLIPS, MD

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EMPLOYMENT

ORTHOPEDIC AND FRACTURE SPECIALISTS, PORTLAND, OR SEPT 2022-PRESENT

JOINT REPLACEMENT AND ORTHOPEDIC TRAUMA SURGEON: Perform primary and complex revision hip and knee arthroplasty with an emphasis on outpatient surgery. Specialize in direct anterior, anterolateral and posterior approaches to the hip as well as unicompartmental knee arthroplasty. Skilled in surgical management of orthopedic trauma at a Level 2 trauma center.

DEPT OF NEUROLOGY, UNIVERSITY OF WASHINGTON MEDICAL CENTER, SEATTLE, WA OCT 2011-JULY 2012

MENTOR: JONATHAN R. WEINSTEIN, MD, PhD

RESEARCH SCIENTIST: Investigated the mechanisms by which toll-like receptor-4 contributes to ischemic preconditioning in a rodent model of stroke. Performed stereotactic intracerebroventricular injections and ex vivo flow cytometry followed by RNA extraction and cell-targeted microarray analysis. In vitro work involved primary mixed glial cultures, hypoxia/hypoglycemia protocols, RNA extraction and PCR gene arrays.

DEPT OF NEUROLOGY, UNIVERSITY OF WASHINGTON MEDICAL CENTER, SEATTLE, WA AUG 2010-OCT 2011

MENTOR: THOMAS MÖLLER, PhD

RESEARCH SCIENTIST: Produced preliminary data demonstrating a positive correlation between Iron dysregulation and neuroinflammation in Huntington's disease using mutant huntingtin expressing microglial cells. Responsible for primary mixed glial cultures, flow cytometry, immunostaining and bioassays.

EDUCATION AND TRAINING

ADULT RECONSTRUCTION FELLOWSHIP AUG 2021-AUG 2022

COLORADO JOINT REPLACEMENT, DENVER, CO

ORTHOPAEDIC SURGERY RESIDENCY JUNE 2016-JULY 2021

CHIEF ORTHOPAEDIC RESIDENT JULY 2020-JULY 2021

THOMAS JEFFERSON UNIVERSITY AND THE ROTHMAN ORTHOPAEDIC INSTITUTE, PHILADELPHIA, PA

DOCTOR OF MEDICINE JULY 2012-JUNE 2016

CUM LAUDE WITH DISTINCTION IN CLINICAL AND TRANSLATIONAL RESEARCH

SIDNEY KIMMEL MEDICAL COLLEGE OF THOMAS JEFFERSON UNIVERSITY, PHILADELPHIA, PA

BACHELOR OF ARTS SEPT 2006-JUNE 2010

ENGLISH LITERATURE WITH A MINOR IN CHEMISTRY

UNIVERSITY OF WASHINGTON, SEATTLE, WA

RESEARCH EXPERIENCE

THE ROTHMAN ORTHOPAEDIC INSTITUTE, PHILADELPHIA, PA JULY 2016-JULY 2021

MENTORS: MATTHEW S. AUSTIN, MD; P. MAXWELL COURTNEY, MD; JAMES J. PURTILL, MD; PEDRO K. BEREDIKLIAN, MD

RESIDENT RESEARCHER: Studies include identifying safe strategies for TJA-associated cost minimization and prospectively investigating the utility of routine post-operative labs following total joint arthroplasty. Validating the PROMIS computer adaptive test against accepted patient reported outcome measures in specific disease processes, such as degenerative joint disease, was another area of investigation.

THE PHILADELPHIA HAND CENTER, THOMAS JEFFERSON UNIVERSITY HOSPITAL, PHILADELPHIA, PA

Nov 2014-JULY 2016

MENTOR: ROWENA McBEATH, MD, PhD

STUDENT RESEARCHER: Investigated demographic factors as well as the time- and dose-dependent risk of tendon injury following fluoroquinolone antibiotic administration.

DEPT OF NEUROLOGICAL SURGERY, THOMAS JEFFERSON UNIVERSITY HOSPITAL, PHILADELPHIA, PA

MAR 2013-OCT 2014

MENTOR: STAVROPOULA I. TJOMAKARIS, MD; PASCAL M. JABBOUR, MD

STUDENT RESEARCHER: Investigated the predictive value of somatosensory evoked potential changes during neuroendovascular surgery for post-operative infarction. Compared the occlusion rates of one versus multiple pipeline embolization devices (PED) in patients with small to medium sized aneurysms. Quantified adverse events following PED coverage of the ophthalmic artery.

DEPT OF NEUROLOGY, HARBORVIEW MEDICAL CENTER, UNIVERSITY OF WASHINGTON, SEATTLE, WA

SEPT 2007-AUG 2010

MENTOR: KYRA J. BECKER, MD; THOMAS MÖLLER, PhD

UNDERGRADUATE RESEARCHER: Developed a protocol for inducing immunotolerance to ischemia in a rodent model of stroke. Quantified the CNS immune response via immunocytochemistry and correlated findings with post-stroke neurological outcomes. Performed middle cerebral artery occlusion surgeries and bioassays. Examined the contents of motor neuron protein inclusions in spinal cord tissue of ALS patients via immunofluorescent staining and confocal microscopy.

CENTER FOR MOLECULAR NEUROSCIENCE, STANFORD UNIVERSITY, STANFORD, CA

JUNE-AUG 2009

MENTOR: THOMAS C. SÜDHOF, MD - WINNER OF THE **2013 NOBEL PRIZE IN MEDICINE**

RESEARCH INTERN: Optimized a screening protocol for identifying novel binding partners of the neuroligin family of post-synaptic membrane proteins. Project required human embryonic kidney cell culture, transfection with neuroligin DNA constructs, affinity chromatography, SDS-PAGE and silver staining.

DEPT OF BEHAVIORAL NEUROSCIENCE, OREGON HEALTH & SCIENCE UNIVERSITY, PORTLAND, OR

JUNE-AUG 2008

MENTOR: BONNIE J. NAGEL, PhD

RESEARCH INTERN: Used functional magnetic resonance imaging (fMRI) during impulse control challenges to compare neurocognition in adolescents with and without a family history of alcoholism. Roles included subject recruitment, statistical analyses and administering neurocognitive tests before and during fMRI.

PUBLICATIONS

Ennis HE, Lamar KT, Johnson RM, **Phillips JL** and Jennings JM (2024). Comparison of outcomes in high versus low activity patients after total joint arthroplasty. *J Arthroplasty* 39(1), 54-59.

Ennis HE, **Phillips JL**, Dennis DA and Jennings JA (2023). Patellofemoral arthroplasty. *JAAOS* 31(19), 1009-1017.

Dennis DA, Smith GH, **Phillips JLH**, Ennis HE, Jennings JM, Plaskos C and Pierrepont J (2023). Does individualized cup position affect prosthetic or bone impingement following total hip arthroplasty? *J Arthroplasty* 38(7S), S257-S264.

Phillips JLH, Ennis HE, Jennings JA and Dennis DA (2023). Screening and management of malnutrition in total joint arthroplasty. *JAAOS* 31(7), 319-325.

Phillips JLH, Fillingham YA, Mitchell WF, Restrepo C, Sherman MB and Austin MS (2022). Routine laboratory tests are not necessary after total joint arthroplasty: a prospective study using a selective algorithmic approach. *J Arthroplasty* 37(9), 1731-1736.

Nossov SB, Holan IL, **Phillips JL**, Franklin CCD (2022). Proximal femoral focal deficiency/congenital femoral deficiency: evaluation and management. *JAAOS* 30(13), e899-e910.

Phillips JLH, Freedman MK, Simon JI and Beredjiklian PK (2021). The PROMIS upper extremity computer adaptive test correlates with previously validated metrics in patients with carpal tunnel syndrome. *Hand* 16(2), 164-169.

Phillips JLH, Rondon AJ, Vanello C, Fillingham YA, Austin MS and Courtney PM (2019). A nurse navigator program is effective in reducing episode-of-care costs following primary hip and knee arthroplasty. *J Arthroplasty* 34(8), 1557-1562.

Rondon AJ, **Phillips JLH**, Gorcia Z, Fillingham YA, Austin MS and Courtney PM (2019). Bundled payments are effective in reducing costs following bilateral total joint arthroplasty. *J Arthroplasty* 34(7), 1317-1321.

Phillips JLH, Warrender WJ, Lutsky KF and Beredjiklian PK (2019). Evaluation of the PROMIS upper extremity computer adaptive test against validated patient reported outcomes in patients with basilar thumb arthritis. *J Hand Surg Am* 44(7), 564-569.

Phillips JLH, Rondon AJ, Vannello C, Fillingham YA, Austin MS and Courtney PM (2019). How much does a readmission cost the bundle following primary hip and knee arthroplasty? *J Arthroplasty* 34(5), 819-823.

Phillips JLH, Rondon AJ, Gorcia Z, Fillingham YA, Austin MS and Courtney PM (2018). No difference in total episode-of-care cost between simultaneous and staged total joint arthroplasty. *J Arthroplasty* 33(12), 3607-11.

Phillips JL, Battenberg A and Courtney PM (2018). Managing extensive femoral bone loss in 2-stage revision THA for infection. Published in International Congress for Joint Reconstruction.

Rondon AJ, Tan TL, Greenky MR, Goswami K, Shohat N, **Phillips JL** and Purtill JJ (2017). Who goes to inpatient rehabilitation or skilled nursing facilities unexpectedly following total knee arthroplasty? *J Arthroplasty* 33(5), 1348-51.

Rondon AJ, Schlitt PK, Tan TL, **Phillips JL**, Greenky MR and Purtill JJ (2017). Survivorship and outcomes in patients with Multiple Sclerosis undergoing total joint arthroplasty. *J Arthroplasty* 33(4), 1024-7.

Rondon AJ, Tan TL, Schlitt PK, Greenky MR, **Phillips JL** and Purtill JJ (2017). Total joint arthroplasty in patients with Parkinson's disease: survivorship and reasons for failure. *J Arthroplasty* 33(4), 1028-32.

McDonough A, Lee RV, Noor S, Lee C, Le T, Iorga M, **Phillips JLH**, Murphy S, Möller T and Weinstein JR (2017). Ischemia/reperfusion interferon stimulated gene expression in microglia. *J Neuroscience* 37(34), 8292-8308.

Chalouhi N, Daou B, Kung D, Zanaty M, **Phillips JL**, Tjoumakaris S, Starke RM, Hasan D, Hasan D, Polifka A, Salas S, Rosenwasser RH and Jabbour PM (2015). Fate of the ophthalmic artery after treatment with the Pipeline Embolization Device. *Neurosurgery* 77(4), 581-4.

Phillips JL, Chalouhi N, Jabbour P, Starke RM, Bovenzi CD, Rosenwasser R, Wilent WB, Romo VM and Tjoumakaris SI (2014). Somatosensory evoked potential changes in neuroendovascular procedures: incidence and association with clinical outcome in 873 patients. *Neurosurgery* 75(5), 560-7.

Chalouhi N, Tjoumakaris SI, **Phillips JL**, Starke RM, Hasan D, Wu C, Zanaty M, Kung D, Gonzalez LF, Rosenwasser R and Jabbour P (2014). A single Pipeline Embolization Device is sufficient for treatment of intracranial aneurysms. *AJNR Am J Neuroradiol* 35(8), 1562-6.

Becker KJ, Kalil AJ, Tanzi P, Zierath DK, Savos AV, Gee JM, **Hadwin J**, Carter KT, Shibata D and Cain KC (2011). Autoimmune responses to the brain after stroke are associated with worse outcome. *Stroke* 42(10), 2763-9.

Tanzi P, Cain K, Kalil A, Zierath D, Gee JM, Shibata D, **Hadwin J**, Carter K and Becker K (2011). Post-stroke infection: a role for IL-1ra? *Neurocrit Care* 14(2), 244-52.

Zierath D, **Hadwin J**, Savos A, Carter KT, Kunze A and Becker KJ (2010). Anamnestic recall of stroke related deficits—an animal model. *Stroke* 41(11), 2653-60.

Zierath D, Thullbery M, **Hadwin J**, Gee JM, Savos A, Kalil A and Becker KJ (2010). CNS immune responses following experimental stroke. *Neurocrit Care* 12(2), 274-84.

Gee JM, Zierath D, **Hadwin J**, Savos A, Kalil A, Thullbery M and Becker KJ (2009). Long term immunologic consequences of experimental stroke and mucosal tolerance. *Exp Transl Stroke Med* 1, 3.

PRESENTATIONS & ABSTRACTS

Phillips JLH, Ennis HE, Johnson RM, Hulst MC and Jennings JM. Perioperative mindfulness training does not improve sleep quality in patients undergoing TKA. American Academy of Hip and Knee Surgeons Annual Meeting, Dallas, TX, Nov 2023.

Ennis HE, Lamar K, **Phillips JLH**, Johnson RM and Jennings JM. Comparison of outcomes in high versus low activity level patients after total joint replacement. American Academy of Hip and Knee Surgeons Annual Meeting, Dallas, TX, Nov 2022.

Dennis DA, **Phillips JL**, Ennis H, Jennings JM, Jones T and Pierrepont J. Does individualized cup position affect prosthetic or bone impingement following THA? The Hip Society Summer Meeting, Santa Monica, CA, Sept 2022.

Phillips JLH, Fillingham YA, Mitchell BS, Restrepo C, Sherman MB and Austin MS. Routine labs after total joint arthroplasty are not necessary: a prospective protocol change study. American Academy of Hip and Knee Surgeons Annual Meeting, Dallas, TX, Nov 2021.

Phillips JLH, Fillingham YA, Mitchell BS, Restrepo C, Sherman M and Austin MS. Routine labs after total joint arthroplasty are not necessary: a prospective protocol change study. The Hip Society Summer Meeting, Washington DC, Oct 2021.

Rondon AJ, **Phillips JL**, Fillingham YA, Austin MS and Courtney PM. A nurse navigator program is effective in reducing episode-of-care costs following hip and knee arthroplasty. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, March 2019.

Fillingham YA, Rondon AJ, **Phillips JL**, Austin MS, Vanello C, Janeic D and Courtney PM. Risk adjustment for episode-of-care costs following total joint arthroplasty: costs of comorbidities. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, March 2019.

Phillips JL, Rondon AJ, Gorcia Z, Fillingham YA, Austin MS and Courtney PM. No difference in total episode-of-care cost between simultaneous and staged total joint arthroplasty. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, March 2019.

Rondon AJ, **Phillips JL**, Gorcia Z, Fillingham YA, Austin MS and Courtney PM. Busting the bundle: costs of unexpected readmissions following total hip and knee arthroplasty. American Academy of Hip and Knee Surgeons Annual Meeting, Dallas, TX, Nov 2018.

Rondon AJ, **Phillips JL**, Gorcia Z, Fillingham YA, Austin MS and Courtney PM. Bundled payments are effective in reducing costs following bilateral total joint arthroplasty. American Academy of Hip and Knee Surgeons Annual Meeting, Dallas, TX, Nov 2018.

Fillingham YA, Rondon AJ, **Phillips JL**, Austin MS, Vanello C, Janeic D and Courtney PM. Risk adjustment for episode-of-care costs following total joint arthroplasty: costs of comorbidities. American Academy of Hip and Knee Surgeons Annual Meeting, Dallas, TX, Nov 2018.

Fillingham YA, Rondon AJ, **Phillips JL**, Austin MS, Vanello C, Janeic D and Courtney PM. Episode-of-care costs for primary total joint arthroplasty: predicting a “bundle-buster” patient. American Academy of Hip and Knee Surgeons Annual Meeting, Dallas, TX, Nov 2018.

Phillips JL, Rondon AJ, Gorcia Z, Fillingham YA, Austin MS and Courtney PM. No difference in total episode-of-care cost between simultaneous and staged total joint arthroplasty. Eastern Orthopaedic Association Annual Meeting, Amelia Island, FL, Oct 2018.

Fillingham YA, Rondon AJ, **Phillips JL**, Austin MS, Vanello C, Janeic D and Courtney PM. Episode-of-care costs for TJA: predicting a “bundle-buster” patient. Eastern Orthopaedic Association Annual Meeting, Amelia Island, FL, Oct 2018.

Fillingham YA, Rondon AJ, **Phillips JL**, Austin MS, Vanello C, Janeic D and Courtney PM. Adjustment for episode-of-care costs following TJA: cost of comorbidities. Eastern Orthopaedic Association Annual Meeting, Amelia Island, FL, Oct 2018.

Phillips JL, Warrender WJ, Lutsky KF and Beredjiklian PK. The PROMIS computer adaptive test correlates with quickDASH in patients with basilar thumb arthritis. Annual Meeting of the American Society for Surgery of the Hand, Boston, MA, Sept 2018.

Rondon AJ, Greenky MR, Tan TL, **Phillips JL** and Purtill JJ. Survivorship and outcomes in patients with Multiple Sclerosis undergoing total joint arthroplasty. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, March 2018.

Phillips JL, Light RT and McBeath R. Fluoroquinolone-associated tendon injury: demographics and time dependence in 6019 cases. Alpha Omega Alpha Student Research Symposium, Philadelphia, PA, April 2016.

Phillips JL, Light RT and McBeath R. Fluoroquinolone-associated tendon rupture is age and time dependent. American Academy of Orthopaedic Surgeons Annual Meeting, Orlando, FL, March 2016.

Phillips JL, Chalouhi N, Jabbour P, Starke RM, Bovenzi CD, Rosenwasser R, Wilent WB, Romo VM and Tjoumakaris SI. Somatosensory evoked potential changes in neuroendovascular procedures: incidence and association with clinical outcome in 873 patients. Congress of Neurological Surgeons Annual Meeting, Boston, MA, Oct 2014.

Phillips JL, Chalouhi N, Jabbour P, Starke RM, Bovenzi CD, Rosenwasser R, Wilent WB, Romo VM and Tjoumakaris SI. Somatosensory evoked potential changes in neuroendovascular procedures: incidence and association with clinical outcome in 873 patients. Sigma Xi Student Research Day, Philadelphia, PA, April 2014.

Weinstein JR, Lee RV, Noor S, **Hadwin J**, Savos A, Coleman J, Murphy SP and Möller T. Ischemic preconditioning in vivo and hypoxia/hypoglycemia in vitro induce interferon stimulated gene expression in microglia. European Meeting on Glial Cells and Disease, Berlin, Germany, July 2013.

Lee RV, Noor S, **Hadwin J**, Savos A, Coleman J, Loprieno M, Möller T, Murphy SP and Weinstein JR. Ischemia and ischemic preconditioning induce toll-like receptor-4-dependent interferon stimulated genes in microglia. Gordon Research Conference: Functional Interactions Among Glia & Neurons, Ventura, CA, March 2013.

Lee RV, **Hadwin JL**, Möller T and Weinstein JR. In vitro characterization of hypoxia/hypoglycemia-induced interferon stimulated gene expression in microglia. American Society for Neurochemistry, Baltimore, MD, March 2012.

Lee RV, Savos A, Colman J, **Hadwin JL**, Möller T, Murphy SP and Weinstein JR. Ischemic preconditioning induces toll-like receptor-4-dependent interferon stimulated gene expression in microglia. American Society for Neurochemistry, Baltimore, MD, March 2012.

Hadwin JL, Silvestroni A, Raibon E, Giorgini F, Kwan W, Muchowski P and Möller T. Iron dysregulation in mutant huntingtin expressing microglia. Gordon Research Conference: CAG Triplet Repeat Disorders, Lucca, Italy, June 2011.

Kalil A, Tanzi P, Zierath D, Cain K, Savos A, Gee JM, **Hadwin J**, Carter KT, Shibata D and Becker KJ. Autoimmune responses to brain antigens following stroke. International Stroke Conference, Los Angeles, CA, Feb 2011.

Hadwin JL and Becker KJ. Post-ischemic infection and the cellular immune response in brain. University of Washington Undergraduate Research Symposium, Seattle, WA, May 2010.

Hadwin JL, Ko J and Südhof TC. Discovering novel binding partners for the neuroligin family of post-synaptic proteins. HHMI ExROP Annual Meeting, Chevy Chase, MD, May 2010.

Tanzi P, Kalil A, Cain K, Zierath D, Carter K, **Hadwin J**, Savos A and Becker KJ. Stroke severity is the primary predictor of early infection. International Stroke Conference, San Antonio, TX, Feb 2010.

Kalil A, Tanzi P, Cain K, Zierath D, Carter K, **Hadwin J**, Savos A and Becker KJ. Systemic inflammation but no evidence of immunodepression following stroke. International Stroke Conference, San Antonio, TX, Feb 2010.

Hadwin JL, Ko J and Südhof TC. Discovering novel binding partners for the neuroligin family of post-synaptic proteins. Pacific Northwest Louis Stokes Alliance for Minority Participation Conference, Seattle, WA, Feb 2010.

Hadwin JL, Ko J and Südhof TC. Discovering novel binding partners for the neuroligin family of post-synaptic proteins. University of Washington HHMI Biology Research Symposium, Seattle, WA, Oct 2009.

Hadwin JL, Ko J and Südhof TC. Discovering novel binding partners for the neuroligin family of post-synaptic proteins. Stanford Summer Research Program/Amgen Scholars Symposium, Stanford, CA, Aug 2009.

Hadwin JL and Becker KJ. Immunologic tolerance to myelin basic protein and the post-ischemic cellular immune response in brain. University of Washington Undergraduate Research Symposium, Seattle, WA, May 2009.

Hadwin JL and Nagel BJ. Investigating neurocognition and brain development in healthy and at-risk adolescents. Oregon Health & Science University Equity Summer Research Program Symposium, Portland, OR, Aug 2008.

Hadwin JL, Zierath D and Becker KJ. Immunologic tolerance to myelin basic protein prevents CNS autoimmunity and improves neurological outcome following stroke. University of Washington Undergraduate Research Symposium, Seattle, WA, May 2008.

PROFESSIONAL MEMBERSHIPS

American Academy of Orthopaedic Surgeons	2021-Present
American Association of Hip and Knee Surgeons	2021-Present

EXAMINATIONS

ABOS Part 1: PASS	Sept 2022
USMLE Step 1: PASS with a score of 244	June 2014
USMLE Step 2 CK & CS: PASS with a score of 258	Oct & Dec 2015
USMLE Step 3: PASS with a score of 229	Oct 2016

LEADERSHIP & VOLUNTEER EXPERIENCE

VOLUNTEER, RONALD McDONALD HOUSE CHARITIES, OREGON & SW WASHINGTON MAY 2023-PRESENT

Leveraging my role as a community physician to fundraise for seriously ill children and their families and provide a home away from home as they access necessary medical care.

VOLUNTEER, OPERATION WALK: WOMEN ORTHOPAEDIST GLOBAL OUTREACH, HAVANA, CUBA MARCH 2018

Reducing the burden of disability associated with degenerative joint disease in the underserved population of Havana by providing free total joint reconstruction alongside a team of female arthroplasty surgeons.

ADVISER, COMMITTEE OF STUDENT ADVISORS, THOMAS JEFFERSON UNIVERSITY, PHILADELPHIA, PA FEB 2013-JUNE 2016

Selected by the Vice President of Academic Services to act as the medical college student body representative during university policy and procedure meetings. Initiated and implemented a study space renovation project at Jefferson Alumni Hall.

VOLUNTEER, JEFFHOPE: HEALTH, OPPORTUNITIES, PREVENTION AND EDUCATION, PHILADELPHIA, PA OCT 2012-JUNE 2016

Providing free, high quality care to underserved populations in Philadelphia through the largest network of student-run clinics in the country. Volunteered as a student doctor primarily at the Eliza Shirley House, a shelter for women and children.

STUDENT ADVISER, THOMAS JEFFERSON UNIVERSITY'S MIDDLE STATES COMMISSION ON HIGHER EDUCATION SELF EVALUATION, PHILADELPHIA, PA SEPT 2012-MAY 2014

Selected by the Jefferson Medical College Dean of Admissions to assist top-level administrators on the Assessment of Student Admissions and Academic Support Services Task Force. Led focus groups for feedback on benchmarks required for reaccreditation. Contributing author on the report submitted to the accreditation team.

FAMILY PARTNER, REFUGEE HEALTH PARTNERS – ADVOCACY COMMITTEE, PHILADELPHIA, PA SEPT 2012-MAY 2014

Assisted Cuban refugee families with obtaining access to healthcare. Worked with the National Services Center (Philadelphia, PA) to identify resources and facilitate employment acquisition.

VOLUNTEER, CDIFFERENT FOUNDATION, SEATTLE, WA DEC 2007-AUG 2012

Personal tutor for Aaron Scheidies, a legally blind five-time paratriathlon world champion and 2011 ESPY Award Nominee. Aaron completed his Doctorate of Physical Therapy in 2008. See cdifferentwithaaron.com.

VOLUNTEER, LOUIS BRAILLE SCHOOL, EDMONDS, WA AUG 2007-JUNE 2011

Developed language arts and math curricula for visually impaired students ages 10-18. Provided teaching support two mornings per week during the 2010-2011 school year. Through Delta Gamma Foundation organized charity events to produce Braille "touch and feel" books and cards from 2007-2009.

VOLUNTEER, DELTA GAMMA FOUNDATION: SERVICE FOR SIGHT, SEATTLE, WA AUG 2006-JUNE 2009

Raised awareness about eye health and advocated for the visually impaired community by executing eyeglasses drives and fundraising for schools for the blind. Helped publicize, plan and acquire corporate sponsorships for Beta Chapter's annual Anchorsplash fundraiser, which raised over \$70,000 in 2009. Learned to read and write in Braille.

HONOR SOCIETY MEMBERSHIPS

ALPHA OMEGA ALPHA MEDICAL HONOR SOCIETY Fall 2015

Candidacy requiring placement in the top 25% of class. Selection based upon academic, personal and service criteria.

GEORGE McCLELLAN SURGICAL HONOR SOCIETY Winter 2014

Membership requiring High Honors in General Surgery clerkship.

HOBART ARMORY HARE MEDICAL HONOR SOCIETY

Fall 2014

Membership requiring placement in top 30% of class and High Honors in Internal Medicine clerkship.

AWARDS & ACHIEVEMENTS

GRADUATE AND RESIDENCY:

Phillip Syng Physic Resident Research Award Winner	Spring 2019
American Association of Hip and Knee Surgeons Resident Course Scholarship recipient	Spring 2018
Operation Walk: Women Orthopaedist Global Outreach Resident Scholarship recipient	Winter 2018
InsideOut JeffArts magazine artist – Father and Sons	Spring 2017
One of 40 medical students nationwide selected to receive the Lavine Research Scholarship	Spring 2014
InsideOut JeffArts magazine artist – The Next Step	Spring 2013

UNDERGRADUATE:

Mary Gates Research Scholarship from the Bill & Melinda Gates Foundation	Fall 2009
Amgen Scholar for Outstanding Achievements in Biomedical Research	Spring 2009
University of Washington Panhellenic Association Excellence in Scholarship Award	Spring 2009
One of 60 students in the nation selected for the HHMI ExROP Scholarship	Spring 2009
Delta Gamma Foundation Scholarship for Dedication to Philanthropy	Spring 2009
Nominated for the HHMI ExROP Scholarship by the University of Washington	Winter 2008
Mary Gates Research Scholarship from the Bill & Melinda Gates Foundation	Fall 2008
Delta Gamma Foundation Scholarship for Dedication to Philanthropy	Spring 2008
University of Washington Howard Hughes Medical Institute Biology Fellow	Winter 2007
Delta Gamma Foundation Scholarship for Dedication to Philanthropy	Spring 2007

INTERESTS

Portrait painting, skiing, cycling and whitewater kayaking