

Benjamin M. Petre, M.D.

Orthopedic Surgery · Sports Medicine
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Severna Park, Maryland

Current Appointment

Orthopedic Surgeon, Sports Medicine Specialist

Luminis Health Orthopedics, Annapolis, MD — 2012–present

Leadership and Administrative Appointments

Luminis Health Orthopedics

- **Medical Director, Sports Medicine Division** — Luminis Health
- **Medical Director of Operations, Orthopedics** — Luminis Health System
- **Executive Committee Member**, Luminis Health Orthopedics
- **Quality Committee Member**, Luminis Health Orthopedics
- **Clinical Operations Committee Member**
- **ASC Steering Committee Member**
- **Orthopedic Leadership Council**, Luminis Health
- **Orthopedic Research Steering Committee**, Anne Arundel Medical Center

Ambulatory Surgery Centers

- **Founding Partner**, two orthopedic ambulatory surgery centers
- **Medical Executive Committee**, Ambulatory Surgery Center
- **Block Time Committee**, Ambulatory Surgery Center

Selected Leadership Accomplishments

- **Two-hospital service line integration.** Led the recruitment and integration of a second hospital and its orthopedic practice into the Luminis Health orthopedic service line, expanding the group's geographic and clinical footprint.
- **System-wide call and coverage redesign.** Architected and implemented a unified call and coverage model merging two previously independent orthopedic groups across two hospitals, now governing scheduling for 80+ providers.
- **ASC development.** Founding partner in the establishment of two ambulatory surgery centers, with ongoing governance responsibility through medical executive and block time committees.

- **Operational continuity during health-system cyberattack.** Designed and deployed a HIPAA-compliant ambulatory electronic medical record within 72 hours to maintain ambulatory clinical operations and documentation during a system-wide EMR outage.

Prior

- Board Member, Anne Arundel Diagnostic Imaging — 2021–2024

Education

Doctor of Medicine — University of Rochester School of Medicine and Dentistry, Rochester, NY. May 2006. *Class Vice President.*

Postgraduate Research — Harvard University / Harvard Medical School, Department of Cell Biology, Boston, MA. May 2000–August 2002.

Bachelor of Arts — Colgate University, Hamilton, NY. May 2000. Major in Biology; Minor in Economics.

Postgraduate Training

Fellowship, Sports Medicine — The Steadman Clinic, Vail, CO. 2011–2012.

Residency, Orthopaedic Surgery — The Johns Hopkins Hospital, Baltimore, MD. 2006–2011. *Administrative Chief Resident, 2010–2011.*

Certification and Licensure

Honors and Awards

- Top Docs, *What's Up? Central Maryland* — 2025–2026
- Administrative Chief Resident, Johns Hopkins Orthopaedic Surgery — 2010–2011
- *Journal of Orthopaedic Trauma* Best Orthopaedic Teaching Resident — 2009
- Dean's List, Colgate University — 1999, 2000

Athletic Team Coverage

- Annapolis Blues FC, Men's and Women's Professional Soccer — Team Physician, 2024–present
- Severna Park High School Athletics — Team Physician, 2013–present
- Annapolis High School Athletics — Team Physician, 2013–present
- Bowie Baysox, AA affiliate of the Baltimore Orioles — Team Physician, 2013–2022
- Baltimore Orioles, Major League Baseball — Team Physician, 2012–2022

- United States Ski Team, Vail, CO — Team Physician, 2011–2020
- United States Snowboard Team, Vail, CO — Team Physician, 2011–2020
- World Championships of Snowboard, Medical Staff — Oslo, Norway, 2012
- Battle Mountain High School Athletics, Vail, CO — 2011–2012
- Baltimore Orioles, Major League Baseball — Resident Physician Coverage, 2007–2011
- Johns Hopkins University Men's Lacrosse — 2007–2008
- Colgate University Club Sports — 1997–2000

Teaching and Academic Appointments

- **Clinical Faculty / Attending and Proctor, Sports Medicine Fellowship** — National Capital Consortium / Uniformed Services University, Bethesda, MD. 2022–present. Teaching attending and proctor for the non-operative sports medicine fellow; clinical instruction, case supervision, and fellow evaluation.
- **Course Faculty, Vail Hip Symposium** — Smith+Nephew, Vail, CO. Lecturer and cadaveric lab instructor, 2019, 2020, 2022.
- **Course Faculty, Hip Labrum Reconstruction Course** — Smith+Nephew, Denver, CO. June 2021. Lecturer, case presentations, and bio-skills lab instructor.
- **Course Faculty, Advanced Concepts in Shoulder and Knee Arthroscopy** — Smith+Nephew, Annapolis, MD. October 2018.
- **Faculty and Panel Moderator, Youth Injury Prevention in Sports (YIPS)** — Anne Arundel Medical Center / Luminis Health CME Conference, Annapolis, MD. Multiple years, 2017–2022.
- Resident and medical student teaching, Luminis Health Orthopedics — 2012–present
- Vertebrate Zoology Teaching Assistant, Colgate University — 1999–2000
- CPR and First Responder Instructor, Hamilton, NY — 1997–2000

Industry Relationships and Disclosures

Smith+Nephew, Sports Medicine — Paid Consultant, 2018–present.

- Medical education faculty for hip and knee arthroscopy courses [see Teaching].
- Participant in research and development and product design/validation laboratories, Andover, MA — including ACL navigation, next-generation arthroscopic visualization, knotless suture anchor design validation, and cartilage restoration platforms. 2018–present.
- Principal Investigator, investigator-initiated study MAP 757: *Safety and Performance of the Microraptor Knotless Suture Anchor in Hip Arthroscopy*. 2020.

Research Experience

Luminis Health Orthopedics, Annapolis, MD — 2013–present

Clinical outcomes research in hip arthroscopy, rotator cuff repair, ACL reconstruction, and the intersection of behavioral health and orthopedic surgical outcomes. Ongoing collaboration with the Luminis Health Orthopedic Research group.

Steadman Philippon Research Institute, Vail, CO — 2011–2012

Advisor: Thomas Hackett, MD. *Area of interest:* ACL reconstruction biomechanics and ACL injuries in snowboarders.

Department of Orthopaedic Surgery, Johns Hopkins Hospital — 2009

Advisor: Steven Petersen, MD. *Area of interest:* Shoulder and elbow surgery; native strength of the triceps tendon compared with published reconstruction methods in cadaveric models.

Department of Orthopaedic Surgery, Johns Hopkins Hospital — 2007–2009

Advisor: Simon Mears, MD. *Area of interest:* Pain control and the adverse effects of pain versus narcotics in the elderly after surgery.

Department of Cell Biology, Harvard Medical School — 2000–2002

Advisor: Thomas Walz, PhD. *Area of interest:* Three-dimensional reconstruction of proteins using high-resolution electron microscopy. Refined emerging high-resolution 2-D electron microscopy techniques to determine 3-D protein structures, and applied them to cell signaling through integrins and to the structures of A-beta and alpha-synuclein, the proteins implicated in Alzheimer's and Parkinson's disease respectively.

Department of Cell Biology, National Cancer Institute, NIH — 1999–2000

Advisor: Suresh Ambudkar, PhD. *Area of interest:* Cancer cell resistance to chemotherapeutic agents. Developed an assay to quantify MRP-1 [multidrug resistance protein-1] in cells and to assess the protein's activity in vitro.

Department of Biology, Colgate University — 1997–2000

Advisor: Ron Hoham, PhD. *Area of interest:* Sexual reproduction of snow algae. Characterized the life cycle of a newly discovered species and determined the environmental cues governing the switch from asexual to sexual reproduction.

Peer-Reviewed Publications

All entries below verified against PubMed, September 2026.

1. Lutati D, Brennan JC, Peterman M, Johnson RH, York J, **Petre BM**, Redziniak DE, Turcotte JJ. Attention-Deficit/Hyperactivity Disorder in Anterior Cruciate Ligament Reconstruction Patients ≤25 Years of Age: A National Database Study of Prevalence and Outcomes. *Orthopedics*. 2026;26(3):186-204. doi:10.31486/otj.26.0021. PMID 42746451.

2. Le A, Johnson AH, Brennan JC, Peterman MA, York J, **Petre BM**, Turcotte J, Redziniak DE. Effect of Preoperative Hormone Replacement Therapy on Postmenopausal Women Undergoing Rotator Cuff Repair. *Cureus*. 2026;18[6]:e110455. doi:10.7759/cureus.110455. PMID 42422664.
3. Johnson AH, Brennan JC, York JJ, Redziniak DE, **Petre BM**, Turcotte JJ. Risk Factors for Development of New-onset Anxiety and Depression After Sports Medicine Surgeries in Patients 25 Years of Age or Younger. *J Am Acad Orthop Surg Glob Res Rev*. 2026;10[3]. doi:10.5435/JAOSGlobal-D-25-00465. PMID 41800667.
4. Peterman MA, Brennan JC, Johnson AH, **Petre BM**, York JJ, Turcotte JJ, Redziniak DE. Anterior cruciate ligament reconstruction with lateral extra-articular tenodesis: national utilization patterns and 2-year postoperative outcomes. *Knee*. 2026;58:104281. doi:10.1016/j.knee.2025.11.007. PMID 41290492.
5. Bahethi SR, Johnson AH, Brennan JC, **Petre BM**, Turcotte JJ, Redziniak DE. Preoperative Patient-Reported Outcome Measures Completion Rates Vary by Procedure Type Among Patients Who Undergo Arthroscopic Surgery. *Arthrosc Sports Med Rehabil*. 2025;7[4]:101208. doi:10.1016/j.asmr.2025.101208. PMID 40980235.
6. Turcotte JJ, Brennan JC, Boudani D, Johnson AH, Donegan C, Holmes S, York JJ, **Petre BM**, Redziniak DE. Predictors of early functional improvement after arthroscopic rotator cuff repair. *JSES Int*. 2025;9[3]:720-727. doi:10.1016/j.jseint.2025.01.003. PMID 40486763.
7. Johnson AH, Lutati DC, Offer JZ, Brennan JC, **Petre BM**, York JJ, Redziniak DE, Turcotte JJ. New-onset anxiety and depression after anterior cruciate ligament reconstruction: A national database study of incidence, risk-factors, and outcomes. *Knee*. 2025;56:29-40. doi:10.1016/j.knee.2025.05.005. PMID 40403431.
8. Mandich M, Johnson AH, Morganti CM, York JJ, **Petre BM**, Turcotte JJ, Redziniak DE. Rates and Risk Factors for Quadriceps and Patellar Tendon Repair Failure: A Single Institution Case Series. *J Surg Orthop Adv*. 2024;33[4]:212-215. PMID 39644284.
9. Stock LA, Johnson AH, Brennan JC, Turcotte JJ, **Petre BM**, King PJ. Outcomes of Total Hip Arthroplasty With and Without a History of Hip Arthroscopy. *J Surg Orthop Adv*. 2024;33[3]:168-171. PMID 39475802.
10. Johnson AH, Levermore SB, Maley AD, Turcotte JJ, **Petre BM**. Effects of Preexisting Anxiety and Depression on Postoperative Outcomes in Patients Aged 30 Years and Younger Following Hip Arthroscopy for Femoroacetabular Impingement Syndrome. *HSS J*. 2024;20[2]:214-221. doi:10.1177/15563316231164614. PMID 39281985.
11. Johnson AH, Brennan JC, Maley A, Levermore SB, Turcotte JJ, **Petre BM**. Injections prior to hip arthroscopy are associated with increased risk of repeat hip arthroscopy at 1 and 5 years. *Arch Orthop Trauma Surg*. 2024;144[2]:823-829. doi:10.1007/s00402-023-05164-7. PMID 38103052.
12. Rana P, Brennan JC, Johnson AH, Turcotte JJ, **Petre BM**. Social Determinants of Health in Maryland Hip Arthroscopy Patients. *Cureus*. 2024;16[1]:e52576. doi:10.7759/cureus.52576. PMID 38371015.

13. Rennie C, Futch KN, Brennan JC, **Petre BM**, Zaidi S, Turcotte JJ, Johnson AH, Redziniak DE. Total Intravenous Anesthesia Compared to Inhalational Anesthesia in Patients Undergoing Arthroscopic Rotator Cuff Repair. *Cureus*. 2023;15(12):e50775. doi:10.7759/cureus.50775. PMID 38239510.
14. Johnson AH, West M, Fowler MB, **Petre BM**, Turcotte JJ, Redziniak DE. What is the Optimal Construct to Reduce Failure in Arthroscopic Four Anchor Rotator Cuff Repair? *Shoulder Elbow*. 2023;15(4 Suppl):33-39. doi:10.1177/17585732221076066. PMID 37974601.
15. Johnson AH, Brennan JC, Stock LA, Levermore SB, Maley A, Turcotte JJ, **Petre BM**. Change in Postoperative Weightbearing Protocol Does Not Increase Postoperative Complications Following Hip Arthroscopy for Femoroacetabular Impingement Syndrome. *Cureus*. 2023;15(6):e40859. doi:10.7759/cureus.40859. PMID 37489196.
16. Johnson AH, Brennan JC, Lashgari CJ, **Petre BM**, Turcotte JJ, Redziniak DE. Clinical Results of Knot-tying Versus Knotless Suture Anchors in Arthroscopic Anteroinferior Labral Repair. *Cureus*. 2023;15(6):e40292. doi:10.7759/cureus.40292. PMID 37448384.
17. Johnson AH, Richardson E, Fowler B, West M, Turcotte JJ, **Petre BM**. Elimination of a Postoperative Brace Does Not Increase Complications Following Hip Arthroscopy. *Cureus*. 2023;15(6):e40321. doi:10.7759/cureus.40321. PMID 37448381.
18. Birrell M, Johnson AH, Brennan JC, **Petre BM**, Turcotte JJ, Redziniak DE. Risk of Lower Extremity Ligamentous Injury Following Concussion Diagnosis: A TriNetX Database Study. *Cureus*. 2023;15(3):e35908. doi:10.7759/cureus.35908. PMID 37033530.
19. Turcotte JJ, Kelly M, West M, Lashgari C, **Petre BM**, Redziniak DE. Rates of medial and lateral row failure and risk factors for re-tear in arthroscopic double row rotator cuff repair. *J Clin Orthop Trauma*. 2023;36:102083. doi:10.1016/j.jcot.2022.102083. PMID 36506592.
20. Johnson AH, Stock LA, **Petre BM**, Keblish DJ, Gelfand J, Patton CM, King PJ, Turcotte JJ, Redziniak DE. Postoperative Outcomes in Patients Undergoing Orthopaedic Surgery Within 90 Days of Coronavirus Disease 2019. *J Am Acad Orthop Surg*. 2023;31(3):148-154. doi:10.5435/JAOS-D-22-00548. PMID 36473208.
21. Johnson AH, York JJ, Lashgari CJ, **Petre BM**, Turcotte JJ, Redziniak DE. Effects of preexisting depression and anxiety on postoperative outcomes following arthroscopic rotator cuff repair. *JSES Int*. 2022;6(6):984-988. doi:10.1016/j.jseint.2022.07.005. PMID 36353422.
22. Johnson AH, Parkison A, **Petre BM**, Turcotte JJ, Redziniak DE. Racial disparities in outcomes of arthroscopic rotator cuff repair: A propensity score matched analysis using multiple national data sets. *J Orthop*. 2022;30:103-107. doi:10.1016/j.jor.2022.02.022. PMID 35250198.
23. August G, Johnson AH, Turcotte JJ, **Petre BM**. The impact of fascia iliaca nerve blockade on early postoperative pain and recovery after hip arthroscopy for femoroacetabular impingement syndrome. *J Hip Preserv Surg*. 2021;8(3):255-260. doi:10.1093/jhps/hnab076. PMID 35414951.
24. Turcotte JJ, Maley AD, Levermore SB, **Petre BM**, Redziniak DE. Risk factors for all-inside meniscal repair failure in isolation and in conjunction with anterior cruciate ligament reconstruction. *Knee*.

2021;28:9-16. doi:10.1016/j.knee.2020.10.012. PMID 33278740.

25. Turcotte JJ, **Petre BM**, Jones CM, Gelfand JM. Maintaining Access to Orthopaedic Surgery During Periods of Operating Room Resource Constraint: Expanded Use of Wide-Awake Surgery During the COVID-19 Pandemic. *J Am Acad Orthop Surg Glob Res Rev.* 2020;4(12):e20.00100. doi:10.5435/JAASGlobal-D-20-00100. PMID 33332853.
26. Turcotte JJ, Thomas DM, Lashgari CJ, Zaidi S, York JJ, Gelfand JM, **Petre BM**, Redziniak DE. Early postoperative pain and opioid consumption after arthroscopic shoulder surgery with or without open subpectoral biceps tenodesis and interscalene block. *J Orthop.* 2020;22:372-376. doi:10.1016/j.jor.2020.08.024. PMID 32952329.
27. Dewan RK, **Petre BM**, Wilckens JH, Zikria BA. Factors Affecting Perceptions of Open, Mini-Open, and Arthroscopic Rotator Cuff Repair Techniques Among Medical Professionals. *Am J Orthop [Belle Mead NJ].* 2015;44(9):E317-25. PMID 26372758.
28. Surowiec RK, Lucas EP, Fitzcharles EK, **Petre BM**, Dornan GJ, Giphart JE, LaPrade RF, Ho CP. T2 values of articular cartilage in clinically relevant subregions of the asymptomatic knee. *Knee Surg Sports Traumatol Arthrosc.* 2014;22(6):1404-14. doi:10.1007/s00167-013-2779-2. PMID 24271329.
29. **Petre BM**, Smith SD, Jansson KS, de Meijer PP, Hackett TR, LaPrade RF, Wijdicks CA. Femoral cortical suspension devices for soft tissue anterior cruciate ligament reconstruction: a comparative biomechanical study. *Am J Sports Med.* 2013;41(2):416-22. doi:10.1177/0363546512469875. PMID 23263298.
30. **Petre BM**, Roxbury CR, McCallum JR, DeFontes KW, Belkoff SM, Mears SC. Pain reporting, opiate dosing, and the adverse effects of opiates after hip or knee replacement in patients 60 years old or older. *Geriatr Orthop Surg Rehabil.* 2012;3(1):3-7. doi:10.1177/2151458511432758. PMID 23569691.
31. **Petre BM**, Karp JE, Riley LH. Athletic cervical spine injury in the setting of fusion failure of the anterior and posterior atlas. *Orthopedics.* 2012;35(9):e1449-52. doi:10.3928/01477447-20120822-39. PMID 22955419.
32. **Petre BM**, Grutter PW, Rose DM, Belkoff SM, McFarland EG, Petersen SA. Triceps tendons: a biomechanical comparison of intact and repaired strength. *J Shoulder Elbow Surg.* 2011;20(2):213-8. doi:10.1016/j.jse.2010.08.017. PMID 21145757.
33. Gonen T, Hite RK, Cheng Y, **Petre BM**, Kistler J, Walz T. Polymorphic assemblies and crystalline arrays of lens tetraspanin MP20. *J Mol Biol.* 2008;376(2):380-92. doi:10.1016/j.jmb.2007.09.001. PMID 18166196.
34. Lashuel HA, Hartley DM, **Petre BM**, Wall JS, Simon MN, Walz T, Lansbury PT Jr. Mixtures of wild-type and a pathogenic [E22G] form of Abeta40 in vitro accumulate protofibrils, including amyloid pores. *J Mol Biol.* 2003;332(4):795-808. doi:10.1016/S0022-2836(03)00927-6. PMID 12972252.
35. Lashuel HA, **Petre BM**, Wall J, Simon M, Nowak RJ, Walz T, Lansbury PT Jr. Alpha-synuclein, especially the Parkinson's disease-associated mutants, forms pore-like annular and tubular protofibrils. *J Mol*

- Biol.* 2002;322[5]:1089-102. doi:10.1016/S0022-2836(02)00735-0. PMID 12367530.
36. Takagi J, **Petre BM**, Walz T, Springer TA. Global conformational rearrangements in integrin extracellular domains in outside-in and inside-out signaling. *Cell*. 2002;110[5]:599-611. doi:10.1016/S0092-8674(02)00935-2. PMID 12230977.
 37. Müller M, Yong M, Peng XH, **Petre B**, Arora S, Ambudkar SV. Evidence for the role of glycosylation in accessibility of the extracellular domains of human MRP1 (ABCC1). *Biochemistry*. 2002;41[31]:10123-32. doi:10.1021/bio26075s. PMID 12146977.
 38. Lashuel HA, Hartley D, **Petre BM**, Walz T, Lansbury PT Jr. Neurodegenerative disease: amyloid pores from pathogenic mutations. *Nature*. 2002;418[6895]:291. doi:10.1038/418291a. PMID 12124613.
 39. Cascio P, Call M, **Petre BM**, Walz T, Goldberg AL. Properties of the hybrid form of the 26S proteasome containing both 19S and PA28 complexes. *EMBO J*. 2002;21[11]:2636-45. doi:10.1093/emboj/21.11.2636. PMID 12032076.
 40. Lederkremer GZ, Cheng Y, **Petre BM**, Vogan E, Springer S, Schekman R, Walz T, Kirchhausen T. Structure of the Sec23p/24p and Sec13p/31p complexes of COPII. *Proc Natl Acad Sci U S A*. 2001;98[19]:10704-9. doi:10.1073/pnas.191359398. PMID 11535824.
 41. Hoham RW, Marcarelli AM, Rogers HS, Ragan MD, **Petre BM**, Ungerer MD, Francis DD. The importance of light and photoperiod in sexual reproduction and geographical distribution in the green snow alga, *Chloromonas* sp.-D [Chlorophyceae, Volvocales]. *Hydrological Processes*. 2000;14:3309-3321.

Books and Book Chapters

- **Petre BM**, Humbyrd C, Chanmugam R, LaPorte D. *Emergencies in Orthopaedics*. Oxford University Press, 2012. [Commissioned volume in the Oxford "Emergencies In" series.]
- Hoham RW, Ragan MD, Marcarelli AM, **Petre BM**, Barnes JM, Rogers HS, Ungerer MD. The effects of Vita-Lite and blue light pre-acclimation on sexual reproduction in the green snow alga, *Chloromonas* sp.-D [Chlorophyceae, Volvocales], using different photoperiods. In: Hardy J, ed. *Proceedings of the Fifty-Seventh Annual Eastern Snow Conference*, Syracuse, NY. 2000:207-220.

Other Publications

- **Petre BM**, Attar S. Osteology (Bone Anatomy). *eMedicine / Medscape Reference*. Updated June 23, 2011.
- **Petre BM**, Deune E. Metacarpophalangeal and Interphalangeal Ligaments. *eMedicine / Medscape Reference*. Updated November 24, 2010.

Manuscripts in Preparation

- **Petre BM, Roxbury C, MacCallum J, DeFontes K, Cordts G, Sieber F, Mears S.** Pain Control after Total Joint Arthroplasty in Patients Receiving Methadone Maintenance Therapy.

Presentations and Invited Lectures

Invited Course Faculty

- Vail Hip Symposium, Smith+Nephew, Vail, CO. Lecturer and cadaveric lab faculty. 2019, 2020, 2022.
 - 2020: *"How Should We Repair the Labrum? Key Concepts in Treating Labral Pathology."*
 - 2019: Lecture and lab faculty instructor, team-based care outside the operating room.
- Hip Labrum Reconstruction Course, Smith+Nephew, Denver, CO. June 2021. Faculty lecture on integrating labral reconstruction into clinical practice; case presentations; bio-skills lab.
- Virtual Hip Arthroscopy Webinar, Smith+Nephew. April 2020.
- Advanced Concepts in Shoulder and Knee Arthroscopy, Smith+Nephew, Annapolis, MD. October 2018.
 - *"Complex Meniscus Tears: Fix It and Preserve the Knee."*
 - *"Meniscal Roots."*
- Physician Assistants in Orthopaedic Surgery (PAOS) Annual CME Conference, Baltimore, MD. August 2017. *"Current Concepts in Hip Arthroscopy."*

Regional and Institutional

- Maryland Orthopaedic Association Annual Meeting, February 2023. Session organizer and moderator, multi-institutional hip pain case panel.
- Youth Injury Prevention in Sports (YIPS), Anne Arundel Medical Center / Luminis Health, Annapolis, MD. Faculty speaker and panel moderator, multiple years 2017–2022.
 - 2020: ACL injury prevention panel convener and breakout lecturer; conference moderator.
 - 2019: *"Baseball Like the Pros."*
- *Boomeritis: What to Do with the Young Athletic Population with Arthritis. A Review of the AAOA CPG and Primary Literature.* The Steadman Clinic Grand Rounds, Vail, CO. 2012.
- *Boomeritis: What to Do with the Young Athletic Population with Arthritis.* Johns Hopkins Department of Orthopaedics Grand Rounds, Baltimore, MD. 2011.

Scientific Meetings [Research Training]

- *The effect of personal views on organ donation on donation rates between Northern and Southern Italy.* University of Rochester School of Medicine and Dentistry Student Research Day, Rochester, NY. 2003.
- *Alpha-synuclein, especially the Parkinson's disease-associated mutants, forms pore-like annular and tubular protofibrils.* Giovanni Armenise-Harvard Foundation Fifth Annual Symposium, St. Thomas, U.S. Virgin Islands. 2002.
- *A global conformational rearrangement in beta-3 integrins regulates affinity for ligands.* Harvard

Medical School Department of Cell Biology Retreat, Boston, MA. 2002.

- *Structure of the Sec23p/24p complexes of COPII*. Sixth Annual Harvard Structural Biology Retreat, Boston, MA. 2002.
- *Two-dimensional structure of the 26S proteasome containing both 19S and PA28 complexes*. Harvard Medical School Department of Cell Biology Annual Retreat, Boston, MA. 2001.
- *The effects of Vita-Lite and blue light pre-acclimation on sexual reproduction in the green snow alga, Chloromonas sp.-D*. Fifty-Seventh Annual Eastern Snow Conference, Syracuse, NY. 2000.
- *The importance of light and photoperiod in sexual reproduction and geographical distribution in the green snow alga, Chloromonas sp.-D*. Colgate University Biology Department Student Research Day, Hamilton, NY. 2000.

Co-Authored Abstracts Presented at National and Regional Meetings

- Maryland Orthopaedic Association Annual Meeting — 2024 [5 abstracts], 2025 [3 abstracts], 2026 [4 abstracts].
- American Orthopaedic Society for Sports Medicine Annual Meeting — 2026.

Previous Professional Experience

Sports Medicine Fellow, The Steadman Clinic, Vail, CO. 8/2011–8/2012.

Staff Orthopaedic Surgeon, Vail Valley Medical Center and Summit County Hospital.

Author, Oxford University Press USA, New York, NY. 2009–2010.

Contracted to write the orthopedic installment of the “Emergencies In” series.

Resident Physician, Department of Orthopaedics, The Johns Hopkins Hospital, Baltimore, MD. 7/2006–7/2011.

- Selected by peers and administration to lead the residency program as Administrative Chief Resident.
- Awarded *Journal of Orthopaedic Trauma* Best Orthopaedic Teaching Resident, 2009.
- Designed and programmed a suite of computer tools to improve resident efficiency and education, adopted department-wide by all orthopaedic residents.

Research Assistant, Department of Cell Biology, Harvard Medical School, Boston, MA. 2000–2002.

Designed and performed 3-D structural analysis of membrane-bound proteins using electron microscopy, with a focus on proteins implicated in Parkinson's and Alzheimer's disease.

Teaching Assistant, Vertebrate Zoology, Colgate University, Hamilton, NY. 1999–2000.

CPR Instructor, Hamilton, NY. 1997–2000. Instructed and certified Colgate University students and faculty in CPR and as First Responders.

Colgate First Response, Hamilton, NY. 1997–2000. Provided medical coverage for non-varsity sporting events; triaged, evaluated, and treated sports-related injuries.

Professional Memberships

- International Society for Hip Arthroscopy (ISHA)
- Maryland Orthopaedic Association
- Steadman Philippon Research Institute, Fellowship Alumni

Curriculum vitae revised September 2026. Publication list verified against PubMed.