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EDUCATION

1. **Washington State University Elson S. Floyd College of Medicine, WA:** (LoA 03/23-12/24. withdrew 04/25) **8/20-04/25**
2. **Pierce Community College, WA:** Certificate in Emergency Medical Services 01/19-03/19
3. **United States Military Academy, NY:** Class of 2011, B.S. in Life Sciences w/Honors, Nuclear Engineering Track 07/07– 05/11

PROFESSIONAL AWARDS & SKILLS

1. **Funding:** [2024 Evergreen Internship Development Incentive \(\\$2,000\)](#), [2024 Zimmer Biomet Startup Pre-Seed Grant \(\\$30,000\)](#), 2023 Perry Initiative Orthopaedics in Action Grant (\$2000), 2022 Health Sciences Chancellor's Excellence Award for Leadership (\$1,000), 2022 WSU Shikany Service Award (\$1,000), 2022 WSU Carson Veteran Scholarship (\$1,000), 3x Founding Dean's Research Grant Recipient (\$5,000), WSU Research Travel Grant (\$875).
2. **Certs:**
 - **Anaconda:** [Certified Python Instructor](#)
 - **Microsoft:** Microsoft Certified Educator | Azure Data Science Associate, Data Engineer, Security Engineer Associate
 - **Google:** Project Management, Cybersecurity, Business Intelligence, Digital Marketing
 - **Medical:** JHU Health IT | EMT-Basic (EMS ID 3725-5746-8319)
3. **Awards:** **Bronze Star**, Army Commendation Medal(x2), Army Achievement Medal, Afghanistan Campaign Medal with Campaign Star, Global War on Terrorism Service Medal, Korea Defense Service Medal, National Defense Service Medal, German Armed Forces Proficiency Badge, Army Service Ribbon, Overseas Service Ribbon, NATO Medal
4. **Skills:**
 - **Code:** [Python](#), [Rust](#), [Lua](#), [Javascript](#), [C++ \(Unreal\)](#), [Go](#), [Zig](#), [CUDA](#), [Mojo](#)
 - **Network:** [IPv6/IPv4](#), [DNS](#), [SSL/TLS](#), [SSH](#), [GPG/PGP](#), [Tor](#)
 - **DevOps:** [Shell](#), [Kernel](#), [Docker/Podman](#), [K8s](#), [Terraform](#), [Ansible](#), [Postgres](#), [MySQL/MariaDB](#), [SQLite](#), [Redis/Valkey](#), [Vulkan](#), [Git](#)
 - **OS:** [Windows 10/11](#) | [MacOS](#) | [Linux:](#) [Debian](#), [Ubuntu](#), [Arch](#), [Nix](#), [Fedora](#)
 - **Med:** CPR, BLS, HIPAA Compliance, Research/Publication
 - **Mil:** Project Management, Leadership, Civ/Mil Relations
 - **Edu:** Teaching, Tutoring, Curriculum Development

EXPERIENCES

1. **Compass AI: Technologist Consulting** **03/23-Current**
 - **Consulting:** Awarded \$30,000 grant from Zimmer Biomet Foundation for genAI medical education pilot.
 - **Teaching:** Awarded \$2000 grant from Greater Spokane Incorporated for PathFinder intern program, trained 12 interns.
2. **North American Spine Society, MSOS, Pixorize, MedAll, Elsevier: Education Ambassador** **06/22-03/23**
 - **Mentorship:** Coordinated matching of 22 underrepresented medical students from 14 med schools with 13 longitudinal mentors.
3. **Washington State University Elson S. Floyd College of Medicine, WA: Student Educational Leader** **06/21-03/23**
 - **Outreach:** Founded longitudinal AI-enabled Youth Outreach program raising \$10000 impacting over 8000 youth.
 - **Research:** Founded multi-site Community Research Mentorship supporting 20 students mentored by five MD/PhD researchers.
 - **Mentorship Equity:** Built first AI-enabled knowledge management platform; adopted by WSU Medicine with over 8000 uses.
 - **Leadership:** Co-Founded three student groups and led 10 events resulting in educational partnership with two medical residency programs and three hospital systems.
4. **Spanaway Community Healthcare Clinic, WA: Acute Care Medical Scribe** **08/19-03/20**
5. **US Army Active Duty, AZ/KR/CO/AF/AZ/WA: Intelligence Officer, Top Secret Security Clearance '11-'21** **05/11-06/19**
 - **Brigade Intelligence Officer/Intelligence Director:** Served in senior Major position as Captain transitioning out of the military.
 - **Detachment Commander/Director:** Led support company consisting of 74 soldiers and equipment valued at \$40,000,000.
 - **Intelligence Operations Officer/Deputy Director:** Led unit planning for international intelligence operational support.
 - **Intelligence/Communications/Public Relations Officer:** Supported the Northwest Joint Regional Correctional Facility.
 - **Intelligence Officer/Collection Director:** Directed over 1000 intelligence collection operations. Collaborated with international partners, Palantir, and national intelligence agencies supporting successful democratic election and provincial transfer.
 - **Intelligence Officer/Deputy Director:** Led pilot training intelligence program training eight deployed tactical intelligence teams.
 - **Fusion Platoon Leader/Section Leader:** Led northernmost US/Republic of Korea (ROK) tactical intelligence cell.
6. **Tacoma Neighborhood Free Clinic, WA: Volunteer Emergency Technician** **07/19-03/20**
 - Conducted patient intake and assisted with labs and referral services for Project Access for premiere Free Clinic in Tacoma.
7. **Multicare Allenmore Emergency Department, WA: Volunteer Trainer/ER Volunteer** **10/18-03/20**
 - Selected as Emergency Room Volunteer Trainer due to support given to clinical staff. Trained 15 new volunteers.

8. Village Seven Presbyterian Church, CO: Church Youth Instructor

07/13-12/13

- Taught weekly classes mentoring 15 elementary youth.


9. United States Military Academy, NY: Cadet Leader

08/07-05/11


- Regimental Academic Officer, American Chemical Society Youth Mentor, United States Military Academy Preparatory School (USMAPS) Basic Training Deputy Director, Company Intramural Athlete: Biathlon, Swim, Ultimate Frisbee


RESEARCH

 #: Manuscript Publication |  #: Podium Presentation |  #: Poster Presentation |  #: Other than Published
[38x publication works/2x Peer Reviewer](#) | [8x citations/H-Index 2](#)


 **1. Clinical Orthopedics and Related Research (CORR)** | DOI:10.1097/CORR.000000000000300 | **PORTER M. A., BS.** | Letter to the Editor | Value-based Healthcare: Can Generative Artificial Intelligence and Large Language Models be a Catalyst for Value-based Healthcare? | PMID 38456784

 **2. Arthroplasty Today** | DOI: 10.1016/j.artd.2023.101239 | **PORTER M. A., BS**, Johnston M. G., MA, Kogan K, PhD, Gray C, BS, Eppich K, BS, Scott D. F., MD. *The Joint Awareness Score: A Shortened, Simplified Alternative to the Forgotten Joint Score* | PMCID: PMC10641080


 **3. Journal of Bone & Joint Surgery Case Connector** | DOI: 10.2106/JBJS.CC.21.00700 | **PORTER M. A., BS**, Schmitz M, MD. *Posterior Reversible Encephalopathy Syndrome with Post-Operative Hematoma Following C4-C6 Spinal Fusion: A Case Report.* PMID 35763013 |


 **4. International Journal of Surgery Case Reports** | DOI: 10.1016/j.ijscr.2021.106650 | **PORTER M. A., BS**, Schmitz M, MD. *ACDF and Posterior Spinal Fusion revision for posterior nonunion with deformity, myelopathy, and osteoporosis in an 87-year-old: A Case Report and Literature Review.* PMCID PMC8715042


 **5. Cureus** | DOI: 10.7759/cureus.26897 | Frolov D, BS, **PORTER M. A., BS**, Schmitz M, MD. | *Posterior Cervical Fusion of Occiput-T3 for Unstable Complex Odontoid Fracture in an 80-year-old male with C2-Sacrum Synostosis From Ankylosing Spondylitis: A Case Report.* PMCID: PMC9376032


 **1. 2025 American Academy of Orthopaedic Surgeons Annual Meeting** | DOI: <https://doi.org/10.5281/zenodo.14842431> | **PORTER, M. A., BS**, Rowshan, A, BA, Hill, M.J., DO, Laporte, D.M. MD, Aiyer, A.A., MD | *The Responsible Open Science Engine: Powering Minimally Invasive AI for Mentorship*

 **2. 2023 Western Orthopaedic Association Stryker Innovation Contest** | No Conference DOI | **PORTER M. A., BS** | *All For One & One For All: An Amplifying Intelligence Framework for Orthopaedics*


 **3. 2022 Western Medical Research Conference** | DOI: 10.1136/jim-2022-WRMC. | **PORTER M. A., BS**, Telis A, MD, Johnston M, MA | *Complex Lower Left Leg Deformity Correction with PRECICE System: A Case Report and Review of the Literature*


 **4. 2022 American College of Surgeons Washington-Oregon Regional Conference** | No Conference DOI | **PORTER M. A., BS**, Lewis S, BS, Mechtly C, PharmD, Birch J, BS, Sampson S, MD, Schaetzel S, MD, Oh K, MD, Glaser J, MD | *Giving Patients What They Bleed: Initial Result From A New Regional Whole Blood Program*


 **5. 2022 Eastern Medical Research Conference** | DOI: 10.1136/jim-2022-ERM. | **PORTER M. A., BS**, Johnston M, MA, Rusev M, MA, Schmitz M, MD | *Radial Styloid Approach For Unstable Distal Radius Fracture Open Reduction and Internal Fixation*


 **6. 2022 Health Occupation Students of America Washington State Leadership Conference** | DOI: 10.13140/RG.2.2.13648.58885 |


PORTER M. A., BS, Nielsen P, BS, Jones B, Johnston M, MA, Schmitz M, MD | *Joined at the Hip: Leadership & Orthopaedics*


 **7. 2023 Health Occupation Students of America Washington State Leadership Conference** | DOI:10.13140/RG.2.2.16748.44165/1 **PORTER M. A., BS**, Schmitz M, MD | *The Mission of Mentorship: The Marrow of Orthopaedics*


 **1. 2025 American Association of Orthopaedic Surgeons Annual meeting** | No Conference DOI | **PORTER M. A., BS**, Rowshawn A.P, BS, Hill, M.J., DO, Laporte D.M., MD, Aiyer, A.A., MD | *The Responsible Open Science Engines: Powering Minimally Invasive AI for Mentorship*


 **2. 2024 American Medical Association Research Challenge** | DOI: <https://doi.org/10.48448/kwd5-1j32> | **PORTER, M.A., BS**, Hill, M.J., DO, Laporte, D.M. MD, Aiyer, A.A., MD | *Kyber Odyssey: Charting a course for secure innovation in a post-Crowdstrike world*


 **3. 2022 Eastern Medical Research Conference** | DOI: 10.1136/jim-2022-erm | **PORTER M. A., BS**, Schmitz M.A., MD | *Clinical Evidence Towards Hypertensive Pathogenesis of Posterior Reversible Encephalopathy Syndrome in the Setting of Spinal Fusion*

 **4. 2022 Midwest Clinical and Translational Research Meeting** | DOI: 10.1136/jim-2022-wrmc | **PORTER M. A., BS**, Schmitz M.A., MD. *Multi-Stage Combined Anterior-Posterior Decompression and Fusion as Corrective Intervention in octogenarian Population with Prior Spinal Fusion Attempt and Pseudarthrosis*

 **5. 2022 Northwest Inland Imaging Research Symposium** | No Conference DOI | **PORTER M. A., BS**, Lewis S, BS, Mechtly C, PharmD, Birch J, BS, Sampson S, MD, Schaetzel S, MD, Oh K, MD, Glaser, J, MD | *Giving Patients What They Bleed – Initial Result From A New Regional Whole Blood Program*

 **6. 2022 American Academy of Physical Medicine and Rehabilitation Annual Assembly** | DOI: 10.1002/pmrj.12913 | Frolov D, BS, **PORTER M. A., BS**, Schmitz M.A., MD. | *Posterior cervical fusion of occiput-T3 for unstable complex odontoid fracture in 80-year-old male with C2-sacrum synostosis from ankylosing spondylitis: A Case Report and Review of the Literature*

 **1. JBJS Open Access** | Rowshawn A.P, BS, **PORTER M. A., BS**, Laporte D.M., MD, Aiyer, A.A., MD | *Comparing AI-Based Human Medical Scribes: Orthopaedic Surgeons' Preferences and Perceptions.* | Publication Status: **Accepted June 22 2025**

 **2. NEJM AI** | **PORTER M. A., BS**, Laporte D.M., MD, Aiyer, A.A., MD | *Transforming Knowledge Ontology with the Model Context Protocol.* | Publication Status: [drafting manuscript](#)

PERSONAL INTERESTS AND HOBBIES

I enjoy riding my motorcycle, programming, and spending time with my wife Katy and our dogs Dempsey and Zen.