

TARA P. MENON

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EDUCATION

2024-2028	Virginia Tech Carilion School of Medicine (VTC SOM) M.D., Anticipated May 2028	Roanoke, VA
2024-2026	Virginia Tech Graduate Certificate in Research in Translational Medicine, Anticipated May 2026	Blacksburg, VA
2019–2022	University of Central Florida (UCF) B.S. in Neuroscience and in Biotechnology ■ Honors Thesis: “Novel Ultrasound Shearing-based Fabrication Method for Nanobubble Synthesis in Gene and Drug Delivery Systems”	Orlando, FL

HONORS AND AWARDS

2025	Top 15 Abstract Competition Finalist – AIMed 2025
2024	Overall Winner of VC Pitch Competition - Cleveland NeuroDesign Entrepreneurs Workshop 2024
2023	University of Florida BMES Research Travel Award
2021	Financial Times News Scholar and NLGJA Convention Fellow
2020	NCWIT Change Lead Scholar and NCWIT-Bloomberg GHC Grantee
2019	Top 25 National Ranking in U.S. Brain Bee

RESEARCH EXPERIENCE

Sep 2025–Present	<p>Giselle Perez, Ph.D. (Director of Adolescent & Young Adult Cancer Research Program, MGH Cancer Center) and Zeba Ahmed, Ph.D. Massachusetts General Hospital Cancer Center – Psychosocial Oncology and AYA Cancer Research</p> <ul style="list-style-type: none"> Supporting the development of an Adolescent and Young Adult (AYA) Cancer Data Repository, including design of an electronic health record (EHR)-linked protocol for longitudinal data capture and integration with REDCap and institutional registries (e.g., RPDR). Contributing to ongoing analysis of AYA post-treatment outcomes (ages 18–30), building on prior global cohorts of >70 participants, with a focus on treatment completion, psychosocial mediators, and moderators of recovery (e.g., anger, exercise, quality of life). Role: Research Collaborator
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Jun 2025–Present	<p>Kyle Lavin, M.D. (Chief Medical Officer, Cerula Care) and Pallav Mehta, M.D. (Medical Director, Reimagine Care)</p> <p>Cerula Care & Reimagine Care – Oncology Health Tech Startups</p> <ul style="list-style-type: none"> ▪ Collaborating with executive medical leadership at two innovative oncology startups to support research strategy, trend identification, and clinical insight generation from large-scale behavioral health and oncology datasets. ▪ Role: Research Collaborator
Oct 2024–Present	<p>Wynn Legon, Ph.D., Primary Investigator</p> <p>Noninvasive Ultrasound Lab, Fralin Biomedical Research Institute at VTC</p> <ul style="list-style-type: none"> ▪ Lead student researcher on “Accelerated Low-Intensity Focused Ultrasound (LIFU) for Chronic Pain: A Non-Invasive Neuromodulation Approach”, a double-blind, sham-controlled clinical trial investigating LIFU targeting the dACC for both acute and longitudinal pain modulation. ▪ Responsible for organizing and validating behavioral and physiological data (e.g., QST, REDCap survey pipelines), creating longitudinal visualizations, and contributing to analysis and manuscript drafting. ▪ Role: Research Student
Nov 2024–Present	<p>Various Physician Collaborators @ Carilion Clinic</p> <p>Freelance Clinical Research – Carilion Clinic, Roanoke, VA</p> <ul style="list-style-type: none"> ▪ Collaborating across multiple departments—including neurosurgery, orthopedic surgery, ENT, infectious disease, internal medicine/oncology, PM&R/acupuncture, and plastic surgery—on various research initiatives arising from clinical shadowing and networking. ▪ Contributions include literature reviews, data analysis/support, and co-authorship on case reports and early-stage clinical projects tailored to each specialty. ▪ Role: Freelance Researcher
May 2023–May 2024	<p>Sharona B. Ross, M.D. and Iswanto Sucandy, M.D., Primary Investigators</p> <p>Department of HPB and Minimally Invasive Surgery, AdventHealth Tampa</p> <ul style="list-style-type: none"> ▪ Multiple projects within robotics/MIS HPB department, with over 35+ published manuscripts. ▪ Role: Clinical Research Coordinator
Aug 2021–Dec 2022	<p>Mehdi Razavi, Ph.D., Primary Investigator and Thesis Advisor</p> <p>Biomaterials and Nanomedicine Lab, University of Central Florida</p> <p>Project: Novel Ultrasound Shearing-based Fabrication Method for Nanobubble Synthesis in Gene and Drug Delivery Systems, <i>patented - WO2024220608.A1</i></p> <ul style="list-style-type: none"> ▪ Developed a novel ultrasound shearing-based method for nanobubble synthesis in gene and drug delivery systems for osteoporosis treatment, with applications detailed in my thesis. ▪ Conducted <i>in vivo</i> testing and phantom vessel tests, optimizing siRNA gene therapy delivery and demonstrating potential theranostic applications through dynamic light scattering and TEM imaging. ▪ Role: Research Assistant
Oct 2019–Nov 2022	<p>Ulas Bagcı, Ph.D., Primary Investigator</p> <p>Machine and Hybrid Intelligence Lab, Northwestern Feinberg (formerly UCF CRCV)</p>

Project: A Critical Appraisal of Data Augmentation Methods for Imaging-Based Medical Diagnosis Applications

- Role: Research Assistant

PATENTS

Nanobubble Synthesis for Gene and Drug Delivery Systems, 2023-045-01, **Filed May 26, 2023**

PROJECTS AND INITIATIVES

Sept 2025	Co-Founder, Pediatric Hematology-Oncology Tutoring & Mentorship Initiative
Aug 2025	Cancer Care Navigation – Designing Pathways and Guidelines for Carilion Clinic
Jul 2024	IEEE Neuroethics Framework – Education (Link)
Jun 2024	SLANT (Sierra Leone Assessment for Neurotrauma Triage) (Link) <ul style="list-style-type: none"> ▪ Developed a prototype of a semi-automatic data-driven triage system for the 2024 Mission:Brain Hackathon
Feb 2024	Tampa Difficulty Score – Robotic Hepatectomy Difficulty Scoring System (Link)
Feb 2024	Tampa Difficulty Score – Robotic Whipple Difficulty Scoring System (Link)
Mar 2020	Hikma Health - COVID-19 U.S. County Health Policy Map (Link)

EDITORIALS AND ARTICLES

Huffington Post Science

- The Link Between Autism, Baby Teeth, and Lead Levels - June 2, 2017
- How Marijuana Can (Potentially) Help Fight Against Alzheimer's - June 30, 2016
- Where The Brain And Panoramic Memory Meet - September 12, 2016

Teen Vogue

- My Imposter Syndrome Improved After I Got Comfortable With Failure - Jan 15, 2020

The Health Care Blog

- Streamlining Public Benefits Access is a Must to Address Poverty - September 25, 2024

StartUp Health

- Treatment Before Vaccine: How These Two Medical Scientists Hope to Buy Time for COVID-19 Patients - June 16, 2020
- Doctor.com launches VirtualVisit, a Free Telemed Platform Backed by Their Big Data

Infrastructure - June 16, 2020

- How to Build an Adaptable Team During Uncertain Times - August 18, 2020
- This Founder Is Fighting Medication Non-Adherence With a Smart Pill Bottle and Mountains of Data - July 17, 2020
- How Joint Academy CEO Jakob Dahlberg Is Transforming Osteoarthritis Care - July 7, 2020

NSM Today

- Learning beyond classrooms and into virtual realms - April 22, 2021

VRScout

- How AI and Haptics Could Revolutionize VR - Sept 23, 2019

PUBLICATIONS

1. Kancheva M, Aronson L, **Pattilachan T**, Sautto F, Daines B, Thommes D, Shar A, Razavi M. Bubble-Based Drug Delivery Systems: Next-Generation Diagnosis to Therapy. *J Funct Biomater*. 2023;14(7):373. PMID: 37504868
2. Ross SB, Doan A, Sucandy I, Christodoulou M, **Pattilachan TM**, Crespo KL, Rosemurgy AS. The Implications of Readmission on Cost and Patient Outcomes Following Distal Pancreatectomy and Splenectomy. *Am Surg*. 2024;90(4):851-857. PMID: 37961894
3. Rayman S, Ross SB, **Pattilachan TM**, Christodoulou M, Rosemurgy A, Sucandy I. The robotic-assisted laparoscopic approach to biliary tract resection and reconstruction for benign indications: A single-center experience. *World J Surg*. 2024;48(1):203-210. PMID: 38686796
4. Dugan MM, Ross SB, Sucandy I, Slavin M, **Pattilachan TM**, Christodoulou M, Rosemurgy A. Cost comparison between medicare and private insurance for robotic transhiatal esophagectomy. *J Robot Surg*. 2024;18(1):30. PMID: 38231356
5. Rayman S, Ross S, Sucandy I, Mikhail K, Christodoulou M, **Pattilachan T**, Rosemurgy A. The effects of smoking history on robotic transhiatal esophagectomy patient outcomes. *J Robot Surg*. 2024;18(1):76. PMID: 38353887
6. Shapera E, Ross S, Sucandy I, Touadi M, **Pattilachan T**, Christodoulou M, Rosemurgy A. The weight of BMI in impacting postoperative and oncologic outcomes in pancreaticoduodenectomy is attenuated by a robotic approach. *J Robot Surg*. 2024;18(1):77. PMID: 38353858
7. Rayman S, Ross SB, Sucandy I, Syblis C, **Pattilachan TM**, Christodoulou M, Rosemurgy A. Weighing the outcomes: the role of BMI in complex robotic esophageal and hepatobiliary operations. *Updates Surg*. 2024;76(3):1031-1039. PMID: 38460102
8. Butano V, Ross SB, Sucandy I, Christodoulou M, **Pattilachan TM**, Neumeier R, Rosemurgy A. Effect of insurance status on perioperative outcomes after robotic pancreaticoduodenectomy: a propensity-score matched analysis. *J Robot Surg*. 2024;18(1):90. PMID: 38386222
9. Sucandy I, Ross SB, Adorno Flores J, Syblis C, **Pattilachan TM**, Christodoulou M, Rosemurgy

- A. Comparison of IWATE, Institut Mutualiste Montsouris, and Southampton Laparoscopic Liver Resection Difficulty Scoring Systems for Predicting Intra and Postoperative Outcomes in Robotic Hepatectomy. *Am Surg.* 2024;90(7):1853-1859. PMID: 38520138
10. Ross S, Sucandy I, Vasanthakumar P, Espeut A, Christodoulou M, **Pattilachan TM**, Rosemurgy A. Deconstructing the Operative Times of Robotic Pancreaticoduodenectomy. *Am Surg.* 2024;90(6):1521-1530. PMID: 38563300
 11. Christodoulou M, **Pattilachan T**, Ross S, Peek G, Sucandy I. Robotic Biliary Resection for Type I Choledochal Cyst With Dual Hepaticojejunostomy. *Am Surg.* 2024;90(6):1813-1814. PMID: 38565320
 12. Ross SB, Sucandy I, Trotto M, Christodoulou M, **Pattilachan TM**, Jattan J, Rosemurgy AS. A decade of experience with minimally invasive anti-reflux operations: robot vs. LESS. *Surg Endosc.* 2024;38(5):2641-2648. PMID: 38503903
 13. Ross SB, Sucandy I, Vasanthakumar P, Christodoulou M, **Pattilachan TM**, Syblis C, Rosemurgy A. Is the robotic approach the future of distal pancreatectomy with splenectomy? A propensity score matched analysis. *J Robot Surg.* 2024;18(1):148. PMID: 38564045
 14. Dugan MM, Ross S, Christodoulou M, **Pattilachan TM**, Flores JA, Rosemurgy A, Sucandy I. Hospital readmissions after robotic hepatectomy for neoplastic disease: Analysis of risk factors, survival, and economical impact. A logistical regression and propensity score matched study. *Am J Surg.* 2024;234:92-98. PMID: 38519401
 15. Ross SB, Popover J, Sucandy I, Christodoulou M, **Pattilachan TM**, Rosemurgy AS. The Oncological Stress Test of Neoadjuvant Therapy: A Systematic Review in Outcomes of Neoadjuvant Therapy Compared to Upfront Resection Approach for Borderline Resectable Pancreatic Adenocarcinoma. *Am Surg.* 2024. *Epub ahead of print.* PMID: 38635295
 16. Sucandy I, Vasanthakumar P, Ross SB, **Pattilachan TM**, Christodoulou M, App S, Rosemurgy A. Effect of IWATE laparoscopic difficulty score on postoperative outcomes and costs for robotic hepatectomy: Are complex resections more expensive?. *J Hepato-Biliary-Pancreatic Sci.* 2024;31(7):446-454. PMID: 38800881
 17. Shapera E, Ross S, **Pattilachan T**, Christodoulou M, Sucandy I. Robotic Biliary Stricturoplasty and Roux-en-Y Hepaticojejunostomy After Hepatic Artery Infusion Pump Injury. *Ann Surg Oncol.* 2024;31(7):4449-4451. PMID: 38632219
 18. Christodoulou M, **Pattilachan TM**, Ross S, Shapera E, Sucandy I. ASO Author Reflections: Application of Robotic Technique for Treatment of Biliary Sclerosis from Hepatic Artery Infusion Pump Chemotherapy. *Ann Surg Oncol.* 2024;31(7):4456-4457. PMID: 38689170
 19. Dugan MM, Christodoulou M, Ross SB, **Pattilachan T**, Rosemurgy A, Sucandy I. Learning curve analysis after 500 robotic hepatectomies. *J Gastrointest Surg.* 2024;28(7):1039-1044. PMID: 38636723
 20. Ross S, Sucandy I, Vasanthakumar P, Christodoulou M, **Pattilachan T**, Rosemurgy A. A comparative analysis of robotic versus open pancreaticoduodenectomy in octogenarians. *J Robot Surg.* 2024;18(1):183. PMID: 38668931
 21. **Pattilachan TM**, Christodoulou M, Ross S, Sucandy I. ASO Author Reflections: Expanding

- Minimally Invasive Options for Perihilar Cholangiocarcinoma: The Use of Robotic Platform in Biliovascular Reconstruction. *Ann Surg Oncol.* 2024;31(7):4462-4463. PMID: 38705939
22. **Pattilachan TM**, Kenary PY, Christodoulou M, Ross S, Rosemurgy A, Sucandy I. ASO Author Reflections: Technical Approach to Inferior Vena Cava Resection and Replacement During Liver Resection: The Role of Conventional Open Technique in the Modern Era of Minimally Invasive Hepatobiliary Surgery. *Ann Surg Oncol.* 2024;31(8):4944-4945. PMID: 38709363
 23. Lippert T, Ross S, **Pattilachan T**, Christodoulou M, Gratsianskiy D, Rosemurgy A, Sucandy I. Initial clinical outcomes of robotic resection for perihilar cholangiocarcinoma: Is it safe and effective?. *J Surg Oncol.* 2024;130(1):102-108. PMID: 38739865
 24. Gratsianskiy D, Ross SB, Sucandy I, Christodoulou M, **Pattilachan T**, Harris N, Rosemurgy A. Do pre-operative endoscopic procedures impact the surgical outcomes of robotic pancreaticoduodenectomy?. *J Robot Surg.* 2024;18(1):279. PMID: 38967695
 25. Christodoulou M, **Pattilachan TM**, Ross SB, Lingamaneni G, Sucandy I. A decade of experience with 530 minimally invasive robotic hepatectomies from a single tertiary hepatobiliary center: analysis of short-term outcomes and oncologic survival. *J Gastrointest Surg.* 2024;28(8):1273-1282. PMID: 38821208
 26. **Pattilachan TM**, Christodoulou M, Ross S. Diagnosis to dissection: AI's role in early detection and surgical intervention for gastric cancer. *J Robot Surg.* 2024;18(1):259. PMID: 38900376
 27. Christodoulou M, **Pattilachan TM**, Ross SB, Rosemurgy A, Sucandy I. A single institution's experience with robotic resections of biliary tract cancers: an analysis of the short-term outcomes and long-term survival. *J Gastrointest Surg.* 2024. *Epub ahead of print.* PMID: 38942191
 28. Ross SB, Peek G, Sucandy I, **Pattilachan TM**, Christodoulou M, Rosemurgy A. A comparative assessment of ACS NSQIP-predicted and actual surgical risk outcomes of robotic transhiatal esophagectomy for esophageal adenocarcinoma resection at a high volume institution. *J Robot Surg.* 2024;18(1):280. PMID: 38967816
 29. **Pattilachan TM**, Christodoulou M, Ross SB, Lingamaneni G, Rosemurgy A, Sucandy I. Internal validation of the Tampa Robotic Difficulty Scoring System: real-time assessment of the novel robotic scoring system in predicting clinical outcomes after hepatectomy. *Surgical Endoscopy.* 10.1007/s00464-024-11291-y. *Advance online publication.* PMID: 39347959
 30. Jones T, Christodoulou M, Ross S, **Pattilachan TM**, Rosemurgy A, Sucandy I. Caudate Lobe and Posterosuperior Segment Hepatectomy Using The Robotic Approach. Outcome Analysis of Liver Resection in Difficult Locations. *American Journal of Surgery.* *In print.*
 31. Sotoudehbagha P, Cordova Flores A, Hartmann T, **Pattilachan TM**, Razavi M. Bone-targeted ultrasound-responsive nanobubbles for siRNA delivery to treat osteoporosis in mice. *Biomaterials Advances.* 2025;166:214078. <https://doi.org/10.1016/j.bioadv.2024.214078>.
 32. **Menon, T.**, Zinszer, K., & Abuzerr, S. Detection of Polio Virus in Gaza's Sewage Demands Immediate Action. *Frontiers in Public Health*, 12, 1474554. <https://doi.org/10.3389/fpubh.2024.1474554>
 33. Gratsianskiy, D., Patel, D., Sucandy, I., **Pattilachan, TM**, Christodoulou, M., Rosemurgy, A., & Ross, S. B. (2024). An institutional analysis of hospital readmission following a robotic

- pancreaticoduodenectomy. *Journal of robotic surgery*, 19(1), 20.
<https://doi.org/10.1007/s11701-024-02186-0>
34. Ross, S. B., Dugan, M. M., Sucandy, I., Christodoulou, M., **Pattilachan, T. M.**, Saravanan, S., Rayman, S., Jacoby, H., & Rosemurgy, A. (2024). Tampa difficulty score: a scoring system for difficulty of robotic pancreaticoduodenectomy. *Journal of robotic surgery*, 19(1), 27.
<https://doi.org/10.1007/s11701-024-02189-x>
 35. Bansal, B., **Pattilachan, T. M.**, Ross, S., Christodoulou, M., & Sucandy, I. (2025). Implications of robotic platforms for repeat hepatectomies: a propensity score matched study of clinical outcomes. *Updates in surgery*, 10.1007/s13304-025-02117-0. Advance online publication.
<https://doi.org/10.1007/s13304-025-02117-0>
 36. **Pattilachan TM**, Christodoulou M, Sucandy I. Robotic Extended Right Posterior Sectionectomy for Epithelioid Hemangioendothelioma. *J Gastrointest Surg*. 2025. *Pending online publication*.
 37. Syblis, C., Christodoulou, M., **Pattilachan TM.**, Ross, S., Rosemurgy, A., & Sucandy, I. The Role of the AST to Platelet Ratio Index (APRI) Score on Outcomes Following Robotic Minor, Technically Major, & Major Hepatectomy for Liver Tumors. *Journal of Robotic Surgery* (2025), *Pending online publication*
 38. Puppalla P, **Pattilachan TM**, de Toledo Aguiar RS, Argoff C, Pilitsis JG. The Future of Pain Management. *Neurologic Clinics*. 2025. Advance online publication.
<https://doi.org/10.1016/j.ncl.2025.04.007>
 39. **Menon T. P.** (2025). Phase I, Arms Crossed. *JAMA*, 10.1001/jama.2025.12308. Advance online publication. <https://doi.org/10.1001/jama.2025.12308>. Sept 24, 2025.
 40. Christodoulou M, **Pattilachan TM**, Sucandy I, Thompson J, & Ross S. A Decade-Long Prospective Analysis Of The Learning Curve After 435 Robotic Pancreaticoduodenectomies From A Single Tertiary Institution. *Journal of Robotic Surgery* (2025), *Pending online publication*
 41. Christodoulou, M., **Pattilachan, TM.**, & Ross, S. B. (2025). When and How to Convert During Robotic Pancreaticoduodenectomy. In *Pancreatoduodenectomy for Cancer: Minimally Invasive Approach* (Springer). Book chapter.
 42. *GBD 2023 Cancer Collaborators (including Tara P Menon)*. The global, regional, and national burden of cancer, 1990–2023, with forecasts to 2050: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet*. Published online Sept 24, 2025. doi:10.1016/S0140-6736(25)01635-6.
 43. **Menon TP**, Mathew A, Iyengar P Gyawali B, Pramesh CS, Dee EC. Intersectionality of Cancer Disparities in South Asia. *The Lancet Global Health*, accepted 16 October 2025.
 44. Adeshina O., **Menon T. P.**, Ambekar A., Tanchanco C., & Darden J. (2025). Exploring the neurological impact of prematurity: Shared mechanisms in periventricular leukomalacia (PVL), intraventricular hemorrhage (IVH), and hydrocephalus. *Early Human Development*.
<https://doi.org/10.1016/j.earlhumdev.2025.106435>

ABSTRACTS AND PRESENTATIONS

Regional

- 2024 **Poster Presentation**, “Enhancement of Ultrasound Imaging via Ultrasonic Sheared Nanobubbles”, The Minerals, Metals & Materials Society, Orlando, FL
- 2025 **Poster Presentation**, “Intersectionality of Cancer Disparities in South Asia”, Carilion Clinic Research Day, Roanoke, VA
- 2025 **Poster Presentation**, “Robotic Extended Right Posterior Sectionectomy for Epithelioid Hemangioendothelioma”, Carilion Clinic Research Day, Roanoke, VA
- 2025 **Poster Presentation**, “Pain Management in a Patient with Gitelman Syndrome Following Supracervical Abdominal Hysterectomy”, Carilion Clinic Research Day, Roanoke, VA
- 2025 **Poster Presentation**, “Management of Neuromyelitis Optica Spectrum Disorder in a 44-Year-Old Female: Case Presentation and Long-Term Therapeutic Approach”, Carilion Clinic Research Day, Roanoke, VA
- 2025 **Oral and Poster Presentation**, “Preparing Future Physicians through Health Systems-Based Practice Education: Perspectives on Longitudinal Clinical Engagement at the Bradley Free Clinic”, Carilion Clinic Research Day, Roanoke, VA
- 2025 **Poster Presentation**, “A Participant If You Can Keep Them: Challenges in Recruiting and Retaining individuals for Alcohol Use Disorder Research”, CUSM Research Day, Colton, CA
- 2025 **Poster Presentation**, “Checkpoint Inhibitor–Associated Lichenoid Eruption in a Patient with Endometrial Carcinoma”, Virginia Dermatology Society, Williamsburg, VA
- 2025 **Poster Presentation**, “No CD20, No Problem: Treating ALK+ LBCL with DA-EPOCH and Rituximab”, Virginia ACP 2025, Richmond, VA
- 2025 **Poster Presentation**, “More Than Meets the Eye: Orbital NET Metastasis Facilitating Orbital Cellulitis”, Virginia ACP 2025, Richmond, VA
- 2025 **Poster Presentation**, “Mapping Lung Cancer in Virginia: Geographic Patterns, Survival, and Policy Priorities for Tobacco Control”, Medical Society of Virginia (MSV) 2025, Norfolk, VA
- 2025 **Poster Presentation**, “Pre-Diagnosis Cannabis Exposure and Clinical Outcomes in Head & Neck Cancer: A Multi-Center Cohort Study”, Medical Society of Virginia (MSV) 2025, Norfolk, VA
- 2025 **Poster Presentation**, “Persistent Urban-Rural Inequity in Cancer Clinical Trial Availability Across Virginia: A Population-Adjusted Analysis”, Virginia Rural Health Association 2025, Nellysford, VA

- 2025 **Poster Presentation**, “Preoperative Benzodiazepine Use and Outcomes Following Anterior Cervical Discectomy and Fusion”, Virginia Society of Addiction Medicine Annual Conference 2025, Roanoke, VA
- 2026 **Poster Presentation**, “Streamlined Pathways Can Relieve ED Crowding From Low-Acuity ENT Infections”, Virginia College of Emergency Physicians 2026, Hot Springs, VA
- 2026 **Poster Presentation**, “When Nosebleeds Need a Bed: Procedural Intervention Predicts Hospital Admission in Emergency Department Epistaxis Visits”, Virginia College of Emergency Physicians 2026, Hot Springs, VA
- 2026 **Poster Presentation**, “Impact of Osteoarthritis on Early Postoperative Complications Following Facial Reconstructive Surgery: A Multi-Institutional Matched Cohort Study”, AWS Southeast Regional Student Research Forum 2026, Norfolk, VA

National

- 2022 **Abstract**, “End-to-End Risk Stratification Model to Predict Progression from Barrett’s Esophagus to Esophageal Adenocarcinoma”, USCAP, Palm Springs, CA
- 2022 **Abstract**, “Deep Learning Models in the Classification of Intraductal Papillary Mucinous Neoplasms With Visual Explanation Methods to Highlight Areas of Interest for Algorithm Decision Process”, Digestive Disease Week (DDW), San Diego, CA
- 2022 **Abstract**, “Imaging-based EGFR mutation subtype classification using EfficientNet”, AACR Annual Meeting, New Orleans, LA
- 2023 **Poster Presentation**, “Optimizing the Formulation of Nanobubble-based Therapeutic Delivery Systems”, Biomedical Engineering Society (BMES), Seattle, WA
- 2024 **Abstract**, “A Single Institutional Experience Of Robotic Resections For Perihilar Cholangiocarcinoma”, Southeastern Surgical Congress (SESC), Clearwater, FL
- 2024 **Abstract**, “Comparison Of Iwate, Institut Mutualiste Montsouris, And Southampton Laparoscopic Liver Resection Difficulty Scoring Systems For Predicting Intra And Postoperative Metrics In Robotic Hepatectomy”, Southeastern Surgical Congress (SESC), Clearwater, FL
- 2024 **Video Abstract**, “Robotic Redo Large Paraesophageal Hiatal Hernia Repair With Toupet Fundoplication”, Southeastern Surgical Congress (SESC), Clearwater, FL
- 2024 **Abstract**, “A Decade Experience Of 500 Robotic Hepatectomies From A Single Tertiary Hepatobiliary Center”, Americas Hepato-Pancreato-Biliary Association (AHPBA) Annual Meeting, Miami Beach, FL
- 2024 **Abstract**, “Validation Of Tampa Robotic Scoring System: Real-time Assessment Of Hepatectomy Outcome Predictions”, Americas Hepato-Pancreato-Biliary Association (AHPBA) Annual Meeting, Miami Beach, FL

- 2024 **Video Abstract**, “Robotic Biliary Resection for Type I Choledochal Cyst with Dual Hepaticojejunostomy”, SAGES Annual Meeting, Cleveland, OH
- 2024 **Abstract and Oral Presentation**, “Internal Validation of the Tampa Robotic Difficulty Scoring System: Real-Time Assessment of the Novel Robotic Scoring System in Predicting Financial Costs of Hepatectomy”, Digestive Disease Week (DDW), Washington, D.C.
- 2024 **Abstract**, “Analysis of Learning Curve After 426 Robotic Pancreaticoduodenectomies”, Digestive Disease Week (DDW), Washington, D.C.
- 2024 **Abstract and Oral Presentation**, “Analysis of Learning Curve After 500 Robotic Hepatectomies”, Digestive Disease Week (DDW), Washington, D.C.
- 2024 **Video Abstract and Oral Presentation**, “Robotic pancreaticoduodenectomy (PD) for Obstructing Ampullary Mass”, Digestive Disease Week (DDW), Washington, D.C.
- 2024 **Abstract**, “Outcome Analysis of Caudate Lobe and Posterosuperior Segment Resection Using Robotic Approach: Comparison of Liver Resections in Difficult Locations”, Digestive Disease Week (DDW), Washington, D.C.
- 2024 **Abstract**, “A Comparative Assessment of ACS NSQIP-Predicted and Actual Surgical Risk Outcomes for Robotic Pancreaticoduodenectomies at a High-Volume Institution”, SRS Annual Meeting, Orlando, FL
- 2024 **Abstract and Oral Presentation**, “Internal Validation of the Tampa Robotic Difficulty Scoring System: Real-Time Assessment of the Novel Robotic Scoring System in Predicting Clinical Outcomes After Hepatectomy”, SRS Annual Meeting, Orlando, FL
- 2024 **Abstract**, “Robotic Versus Open Repair of Iatrogenic Bile Duct Injury During Cholecystectomy - A Prospective Follow-up Study Beyond Short-Term Outcomes”, SLS MISWeek Annual Meeting, Lake Buena Vista, FL
- 2024 **Abstract**, “Is Pancreatic Cancer Sporadic or Part of the Syndrome?”, SLS MISWeek Annual Meeting, Lake Buena Vista, FL
- 2024 **Abstract**, “Today’s Experience with 430 Robotic Pancreaticoduodenectomies from a Single High-Volume Institution”, SLS MISWeek Annual Meeting, Lake Buena Vista, FL
- 2024 **Abstract**, “A Single Institution’s Experience With Robotic Resections of Biliary Tract Cancers. An Analysis of the Short-Term Outcomes and Long-Term Survival”, SLS MISWeek Annual Meeting, Lake Buena Vista, FL
- 2024 **Abstract**, “The Role of the AST to Platelet Ratio Index (APRI Score) on Outcomes Following Robotic Major Hepatectomy for Liver Tumors”, SLS MISWeek Annual Meeting, Lake Buena Vista, FL

- 2025 **Poster Presentation**, “Augmentation AI: Use of a Novel Deep Learning-Based Generative Artificial Intelligence System as a Tool for Breast Augmentation Simulation”, The Aesthetic Meet, Austin, TX
- 2025 **Poster Presentation**, “The Importance of Actionable Interventions for Patients with Mental Health Disorders in a Free Clinic Environment”, Northern California Psychiatric Society, Santa Rosa, CA
- 2025 **Poster Presentation**, “Ultrasound-Responsive Nanobubble for Gene Delivery and Ultrasound Imaging”, Society For Biomaterials, Chicago, IL
- 2025 **Oral Presentation**, “Restoring the Smile: Approaches to Facial Reanimation After Cancer-Related Nerve Injury”, Oto Chautauqua Colloquium, Buffalo, NY
- 2025 **Oral Presentation**, “Hoarseness and Beyond: Understanding Vocal Cord Paralysis”, Oto Chautauqua Colloquium, Buffalo, NY
- 2025 **Abstract and Poster Presentation**, “Reducing Oncology Provider Time Toxicity Through a Virtual Care Platform: Operational and Workforce Modeling Outcomes.”, 2025 ASCO Quality Care Symposium, Chicago, IL
- 2025 **Poster Presentation**, “Boosting Interventional Radiology Engagement Through Inter-Specialty Collaboration”, Northeast Regional Vascular and Interventional Radiology Symposium, 2025, Boston, MA
- 2025 **Poster Presentation**, “BRIDGE (Bridging Rural and Isolated Demographics through Generative Equity): An AI-Powered Digital Companion for Cancer Care Access”, 2025 AIMed, San Diego, CA
- 2025 **Abstract and Poster Presentation**, “Integrating Virtual Collaborative Care Behavioral Health in Breast Cancer Care: Improving Outcomes in Mental Health, Adherence, and Racial Equity”, San Antonio Breast Cancer Symposium (SABCS) 2025, San Antonio, TX
- 2026 **Abstract and Poster Presentation**, “Jain Auricular Acupuncture for Pain (JAAP) Using ASP Needles in a Patient With Sickle Cell Disease During Acute Pain Crisis”, American Academy of Pain Medicine (AAPM) 2026, Salt Lake City, UT
- 2026 **Abstract and Poster Presentation**, “Pain Management Using Jain Auricular Acupuncture for Pain (JAAP) in a Patient With Pelvic Congestion Syndrome Following Renal Vein Transposition Surgery”, American Academy of Pain Medicine (AAPM) 2026, Salt Lake City, UT
- 2026 **Abstract and Poster Presentation**, “Integrating Shen Men Auricular Acupuncture for Complex Pain and Insomnia in a Postoperative Patient With Substance Use History and Bilateral Amputations”, American Academy of Pain Medicine (AAPM) 2026, Salt Lake City, UT
- 2026 **Abstract and Poster Presentation**, “Acupuncture at Shen Men as an Adjunct Therapy Following Spinal Fusion Related to Osteomyelitis and Cord Compression: A Case Report”, American Academy of Pain Medicine (AAPM) 2026, Salt Lake City, UT

- 2026 **Poster Presentation**, “Student-Led Framework for AI Literacy in Medical Education”, AAMC GSA-GDI-OSR Joint National Meeting 2026, Orlando, FL
- 2026 **Oral Presentation**, “Long COVID is Associated with Increased Odds of Neurotologic Manifestations: A National Database Study”, Combined Otolaryngology Spring Meeting (COSM) 2026, Phoenix, AZ
- 2026 **Poster Presentation**, “From Residency to Fellowship: Gender and Race in Neurotology Fellowships Compared with Otolaryngology Residency”, Combined Otolaryngology Spring Meeting (COSM) 2026, Phoenix, AZ

International

- 2025 **Abstract**, IEEE Brain Neuroethics Framework – Education, Neuroethics 2025, Munich, Germany
- 2025 **Abstract and Oral Presentation**, Strengthening Surgical Systems Through National Plans : Lessons from NSOAP Implementation in LMICs, InciSioN Global Surgery Symposium (IGSS), St. George’s, Grenada
- 2025 **Abstract and Poster Presentation**, Surgical Desertification Index: A Novel System for Prioritizing Trauma System Investments Globally, InciSioN Global Surgery Symposium (IGSS), St. George’s, Grenada

EXTRACURRICULAR ACTIVITIES

- 2025-present News and Views Student Editor, npj Digital Medicine
- 2024-present Bridging Admissions – Mentor
- 2024-present President of Global Surgery Student Alliance, VTCSOM
- 2024-present President of Oncology Interest Group, VTCSOM
- 2024-present Co-President of History in Medicine Club, VTCSOM
- 2024-present Orthopedic Surgery, Neurosurgery, Plastic Surgery Interest Group(s), VTCSOM
- 2024-present HyperTech – Senior Design Project Advisor, VTCSOM
- 2024-present Refugee & Immigrant Medical Association (RIMA), VTCSOM
- 2023-2024 Co-Chair of Planning Committee, 2024 International Women In Surgery Career Symposium
- Led a team that raised \$300,000, securing partial sponsorships for over 300 students and ensuring a successful event with 600+ attendees.
 - Responsibilities included planning the agenda and theme, coordinating plenary events, meeting with major medical industry leaders such as Intuitive and Medtronic (among others), and organizing a fashion show showcasing the personal ‘color and style’ of women surgeons.

- Summer 2023 “Gene Therapy 101 – An Introduction to Modern Medicine’s Future” Course Instructor, USF Osher Lifelong Learning Institute
- Developed and delivered this Summer 2023 course, providing senior citizen learners with a foundational understanding of gene therapy and immunotherapies.
 - Designed engaging lesson plans and utilized diverse teaching methods to enhance knowledge transfer within a senior learning environment.
- 2016-present Freelance Medical and Science Journalism – published in Huffington Post, Teen Vogue, VRScout, StartUp Health, etc.
- Published in outlets such as the Huffington Post, Teen Vogue, and VR Scout, and served as a Journalism Fellow at StartUp Health, reporting on key biotech and medtech advancements during COVID-19.
 - Conducted interviews with healthcare CEOs and distilled complex medical concepts into accessible narratives, bridging the gap between medical knowledge and patient stories.

PROFESSIONAL MEMBERSHIPS

April 2025-Present Cancer Action Coalition of Virginia (CACV) - **Advocacy & Policy Committee Member**

July 2025-Present VTCSOM LCME Self-Study Subcommittee on Academic and Learning Environments and Educational Resources and Infrastructure (Standards 3 and 5) – **Subcommittee Member**

April 2025-Present VTCSOM Continuous Quality Improvement (CQI) Committee– **M1 Student Representative**

April 2025-Present American Society of Clinical Oncology (ASCO) - **Member**

December 2024-Present Global Surgery Student Alliance – **National Advocacy Committee Member**

August 2024-Present VTCSOM Council for Inclusive Collaboration – **Elected Committee Member**

June 2024-Present iBCI-CC "Clinical Study Endpoints" Workgroup – **Member**

August 2023-Present International Women in Surgery Career Symposium– **2024 Committee Member, 2023 Committee Chair**

VOLUNTEER ACTIVITIES

- | | | |
|----------------|---|-------------|
| April 2025 | Carilion Clinic – Hospice and No One Dies Alone Program
Volunteer | Roanoke, VA |
| September 2024 | Bradley Free Clinic
Volunteer | Roanoke, VA |
| Aug 2022 | Grace Medical Home | Orlando, FL |

Volunteer

- Volunteered at hospitals and Grace Clinic, assisting uninsured patients from diverse backgrounds.

Jun 2022

Suncoast Kids Place: Center for Grieving Children

Tampa, FL

Volunteer – Grief Counselor

- Provided grief counseling at a local children's center, using personal experiences to create supportive spaces for young children coping with loss.

WORK EXPERIENCE

2023-2024

Digestive Health Institute, AdventHealth Tampa

Tampa, FL

Clinical Research Coordinator & Research Program Coordinator

- Served as Research Program Coordinator and Clinical Research Assistant at AdventHealth's Digestive Health Institute, leading and mentoring a team of high school and medical students in the Robotics/MIS HPB Department.
- Managed research projects, administrative duties, and contributed to the submission of >50 abstracts and manuscripts (combined).

2022-2023

Advanced Pain Care

Tampa, FL

Medical Assistant and Scribe

- Served as a Medical Assistant and Scribe at APC, an interventional pain clinic, documenting medical histories and assisting in the formulation and implementation of treatment plans.
- Prepared and assisted with steroid injections.

2021-2024

Wing Venture Capital

Tampa, FL (remote)

Editorial and Newsletter Staff

- Served as an editorial staff writer at Wing Venture Capital, translating complex biotech and venture capital news into briefings for over 3,000 readers.
- Led and mentored two interns, focusing on clear communication and effective leadership.

2020-2022

Undergraduate Teaching at UCF

Tampa, FL

Teaching Assistant

Subjects: Biology I, Organic Chemistry I

INTERESTS

- Global cinema and music
- Poetry, prose, art history
- Playing several instruments and music production
- Kickboxing and martial arts
- Interest in medical innovation, invention, and entrepreneurship