

**Samuel Falkson
Curriculum Vitae**

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Education:

09/2013- 05/2016	Bachelor of Arts (BA)	Business, Entrepreneurship, and Organizations	Brown University
08/2018- 06/2022	Doctor of Medicine (MD)	Scholarly concentration in Bioengineering and Quality Improvement	Stanford University School of Medicine
08/2024-	Master's of Intellectual Property		Univeristy of New Hampshire Franklin Pierce School of Law

Postdoctoral Training:

06/22-	Resident	Department of Anesthesia, Critical Care and Pain Medicine	Massachusetts General Hospital and Harvard Medical School
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Other Professional Positions:

2014-	Clinical Consultant	Reliable Respiratory	5 hours/week
2016-2017	Research Assistant	Brigham and Women's Hospital/Harvard Medical School	
2017-2018	Fulbright Research Fellow	Weizmann Institute of Science	
2019-2019	Medical Research Intern	LupaVita	
2019-2020	Medical Consultant	Vynca	
2022-	Lieutenant (O-3)	United States Navy Reserve	2 hours per week (non- uniformly distributed throughout the year)
2025	Founder/Chief Executive Officer	BlissElla Physiologic Arts, PLLC	

Major Administrative Leadership Positions:

Local

2019-2020	Co-leader of Oncology Interest Group	Stanford University School of Medicine
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Committee Service:**Local**

2022-	Rambar-Mark Award Advisory Committee	Stanford University School of Medicine
2022-		Committee Member

Regional

2022-	Committee on Resident and Fellow Affairs (CORFA)	The Massachusetts Society of Anesthesiologists
2022-2023		Program Liaison for Massachusetts General Hospital Anesthesiology Residency Program

Professional Societies:

2019-2022	American Society of Clinical Oncology
2021-2022	American College of Radiology
2021-	American Society of Anesthesiologists
2023-	Undersea & Hyperbaric Medical Society

Editorial Activities:**Ad hoc Reviewer**

Annals of Translational Medicine
Quantitative Imaging in Medicine and Surgery

Honors and Prizes:

2016	Graduated Magna Cum Laude	Brown University	
2016	Graduation Honors	Brown University	Awarded at graduation from Brown University for completing an honor's thesis
2016	S.C. Rosenberger Award	Brown University	Awarded at graduation from Brown University for outstanding contribution to the Business, Entrepreneurship, and Organizations major

2017-2018	Betz Award	The Irving and Helen Betz Foundation	Awarded to further support my Fulbright Award to perform cancer research
2017-2018	United States Fulbright Award	United States Fulbright Program	Awarded to conduct self-designed cancer research project at the Weizmann Institute of Science in Israel
2018	Stanford BioDesign Next Innovation Award	Stanford University Byers Center for Biodesign	Awarded to fund project focused on developing digital cardiovascular rehabilitation therapy
2019-2020	Stanford MedScholars Grant	Stanford University School of Medicine	Awarded to develop a 3D printing technique that creates CT phantoms replicating pulmonary pathology
2022	Plenary Abstract at 2022 Medical Student & Resident Abstract Forum	American Society of Clinical Oncology	My abstract entitled "Biliary Cancer Brain Metastases: A Multi-Institution Case Series with Case Reports" was featured as a plenary abstract
2022	Distinguished Reviewer/Reviewer of the Month	Annals of Translational Medicine	Awarded for making valuable contributions to the peer review process for the Journal, <i>Annals of Translational Medicine</i>

Report of Funded and Unfunded Projects

Past

2017-2018	Further Understanding the PI3K-AKT Signaling Pathway and its Role in Cancer United States Fulbright Program Co-Investigator (PI: Rony Seger) Investigated regulation of the PI3K-AKT signaling pathway, which becomes dysregulated in many cancers
2019-2021	Stanford Medical Scholars Grant Stanford MedScholars Co-Investigator (PI: H. Henry Guo) Developed technique to 3D print CT phantoms of pulmonary pathology directly from individual patient CT scans

Report of Local Teaching and Training

Teaching of Students in Courses:

2014-2015	Let's Get Ready, SAT Tutoring High School students	Boston, MA and Providence, RI 5 hours / week Volunteered as an SAT tutor through the Let's Get Ready organization
2020-2020	Current Topics in Oncology Medical Students	Stanford University School of Medicine 3 hours / week Participated as a teaching assistant for this course

Other Mentored Trainees and Faculty:

2025-	Logan Metivier, RN student at The University of Rhode Island Logan was in an undergraduate Bachelor of Science in Nursing Program at the University of Rhode Island during his internship Logan worked as a summer intern for BlissElla Physiologic Arts, where he researched the scientific rationale behind lactate threshold testing as it relates to performance medicine, and created a protocol through which to offer such testing to patients of BlissElla Physiologic Arts.
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Local Invited Presentations:

☒ *No presentations below were sponsored by 3rd parties/outside entities*

2020	3-D Printing of Part Solid Pulmonary Nodules from Clinical CT of Lung Tumor / Symposium Stanford University School of Medicine Medical Student Research Symposium Conference was canceled due to the COVID-19 Pandemic
2021	Inpatient Process to Obtain Pathology Specimens from Outside Hospitals / Symposium The Stanford Medicine 2021 Quality Improvement & Patient Safety Symposium
2023	Aspiration / Invited Lecture Department of Anesthesia, Critical Care and Pain Medicine/Massachusetts General Hospital Presented on aspiration pneumonia and pneumonitis to interns in the anesthesiology residency program

Report of Regional, National and International Invited Teaching and Presentations

☒ *Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.*

Regional

2020 Reducing Readmission Through High-Quality Advance Care Planning Conversations and POLST Completion / Poster
 Sacramento, CA (Coalition for Compassionate Care of California Annual Summit)
 This presentation was in collaboration with Vynca Health, a company in Palo Alto, CA

National

2020 Predicting Determinants of Spine Metastases at Initial Presentation of Pediatric Brain Tumor Patients / Poster
 Boston, MA (2020 American Association of Neurological Surgeons Annual Scientific Meeting)

2020 3-D Printing of Part Solid Pulmonary Nodules from Clinical CT of Lung Tumor / Poster
 Chicago, IL (Medical Student & Resident Abstract Forum at the 2020 American Society of Clinical Oncology Annual Meeting)

2022 Biliary Cancer Brain Metastases: A Multi-Institution Case Series with Case Reports / Poster
 Chicago, IL (Medical Student & Resident Abstract Forum at the 2022 American Society of Clinical Oncology Annual Meeting)
 Abstract and presentation was featured as a plenary abstract during the conference

International

2018 Further Understanding the PI3K-AKT Signaling Pathway and its Role in Cancer / Poster
 Rabat, Morocco (2018 Fulbright Middle East and North Africa Enrichment Seminar)
 Sponsored by the Fulbright Program

Report of Clinical Activities and Innovations

Past and Current Licensure and Certification:

2024 Active Massachusetts Physician License granted by the Board of Registration in Medicine

Practice Activities:

2024-2024	Military Clinical Training	Navy Reserve Center Quincy, MA	Completed Emergency Preparedness Response Course (EPRC) - Clinician Course (8 hrs)
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Report of Education of Patients and Service to the Community

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Educational Material for Patients and the Lay Community:

Educational material or curricula developed for non-professional audiences

2019	Emerging Thoughts on Lupus: From Causes, to Diagnostics, to Treatments	Blog post for a nutraceutical company, LupaVita
2022	The Reliable Diabetes Toolkit	Created educational pamphlet on Diabetes

Report of Scholarship

ORCID: 0000-0001-8195-935X

Peer-Reviewed Scholarship in print or other media:

Research Investigations

1. Schapansky J, Khasnavis S, DeAndrade MP, Nardozi JD, **Falkson SR**, Boyd JD, Sanderson JB, Bartels T, Melrose HL, LaVoie MJ. Familial knockin mutation of LRRK2 causes lysosomal dysfunction and accumulation of endogenous insoluble α -synuclein in neurons. *Neurobiol Dis*. 2018 Mar;111:26-35. PMID: 29246723, PMCID: PMC5803451, <https://doi.org/10.1016/j.nbd.2017.12.005>
2. Rubin SJS, **Falkson SR**, Degner NR, Blish C. Clinical characteristics associated with COVID-19 severity in California. *J Clin Transl Sci*. 2020 Apr 16;5(1):e3. PMID: 34192044, PMCID: PMC7274026, <https://doi.org/10.1017/cts.2020.40>
3. **Falkson SR**, Bhambhani HP, Hayden Gephart M. Hepatocellular Carcinoma Brain Metastases: A Single-Institution Experience. *World Neurosurg*. 2020 Aug;140:e27-e32. PMID: 32289508, <https://doi.org/10.1016/j.wneu.2020.03.189>
4. Rubin SJS, **Falkson SR**, Degner NR, Blish CA. Safety of ACE-I and ARB medications in COVID-19: A retrospective cohort study of inpatients and outpatients in California. *J Clin Transl Sci*. 2021;5(1):e8. PMID: 34611496, PMCID: PMC7605244, <https://doi.org/10.1017/cts.2020.489>
5. **Falkson SR**, Zhang K, Bhambhani HP, Wild JL, Griffin A, Kelley RK, Gephart MH. Biliary cancer brain metastases: a multi-institution case series with case reports. *J Gastrointest Oncol*. 2022 Apr;13(2):822-832. PMID: 35557587, PMCID: PMC9086048, <https://doi.org/10.21037/jgo-21-818>
6. Wang J, **Falkson SR**, Guo HH. Radiopaque Reconstructions of Lung Pathologies From Clinical Computed Tomography Images Using Potassium Iodide Inkjet 3-dimensional Printing: Proof of Concept. *J Thorac Imaging*. 2022 May 1;37(3):146-153. PMID: 34334783, <https://doi.org/10.1097/RTI.0000000000000607>
7. Neiman NR, **Falkson SR**, Rodriguez ST, Wang EY, Hemphill SF, Khoury ME, Kist MN, Jackson CD, Caruso TJ. Quantifying virtual reality pain modulation in healthy

volunteers: A randomized, crossover study. *J Clin Anesth*. 2022 Sep;80:110876. PMID: 35525050, <https://doi.org/10.1016/j.jclinane.2022.110876>

8. Rodrigues, A.J., Medress, Z.A., Sayadi, J. *et al*. Predictors of spine metastases at initial presentation of pediatric brain tumor patients: a single-institution study. *Childs Nerv Syst* (2022). <https://doi.org/10.1007/s00381-022-05702-5>
9. Kumar N, Bardia A, Fitzsimons MG, Essandoh M, Mitchell J, **Falkson SR**, Dalia A, Tang J, Sawyer TR, Iyer MH. Etomidate vs Ketamine-Propofol for Induction of Anesthesia in Coronary Artery Bypass Grafting: An Updated Systematic Review and Meta-Analysis. *Semin Cardiothorac Vasc Anesth*. 2025 Apr 12:10892532251332079. doi: 10.1177/10892532251332079. Epub ahead of print. PMID: 40221834.

Non-peer reviewed scholarship in print or other media:

Reviews, chapters, and editorials

1. Ball M, **Falkson SR**, Adigun OO. Anatomy, Angle of Louis. . 2022 Jan. PMID: 29083679
2. Nugent CC, **Falkson SR**, Terrell JM. H2 Blockers. . 2022 Jan. PMID: 30252250
3. **Falkson SR**, Bordoni B. Grasp Reflex. . 2022 Jan. PMID: 31985919
4. **Falkson SR**, Hinson JW. Westphal Sign. . 2022 Jan. PMID: 31985995
5. **Falkson SR**, Srinivasan VN. Health Maintenance Organization. . 2022 Jan. PMID: 32119341
6. **Falkson SR**, Bordoni B. Anatomy, Abdomen and Pelvis, Bowman Capsule. . 2022 Jan. PMID: 32119361
7. **Falkson SR**, Tadi P. Otoscopy. . 2022 Jan. PMID: 32310550
8. Novis HS, Rodrigues AJ, Campbell GJ, **Falkson SR**. Is a single-staged endovascular embolization and microsurgical resection approach preferred to a multi-staged approach for the treatment of brain arteriovenous malformations?. *Ann Transl Med*. 2022 Jul;10(14):758. PMID: 35965807, PMCID: PMC9372674, <https://doi.org/10.21037/atm-22-3395>
9. Kumar N, Rahman GR, Falkson S, Lu SY, Dalia A. Hydroxocobalamin in refractory vasodilatory shock: more questions than answers. *J Cardiothorac Vasc Anesth*. 2023 Sep;37(9):1773-1775. PMID: 37225547, <https://doi.org/10.1053/j.jvca.2023.05.001>
10. Robins M, **Falkson SR**, Goldfarb J, Wyatt HA. Hyperbaric treatment of ischemia reperfusion injury. In: StatPearls. StatPearls Publishing; 2024.

Letters to the Editor

1. Kumar N, Falkson S, Yi Y, Iyer MH, Essandoh M. Video laryngoscopy-guided transesophageal echocardiography probe insertion: a worthy approach to consider. *J*

Cardiothorac Vasc Anesth. 2023 Mar;37(3):496-497. PMID: 36543664,
<https://doi.org/10.1053/j.jvca.2022.11.036>

2. Kumar N, **Falkson SR**, Lu SY, Dalia AA. Hydroxocobalamin versus methylene blue: still unanswered and needing a change in approach. J Cardiothorac Vasc Anesth. Published online August 19, 2023:S1053-0770(23)00703-6.

Other non-peer reviewed scholarship

1. Falkson, SR. Think of the Person behind the Cells: The Motivations of Biomedical Research. KevinMD, 23 Oct. 2017.
2. Falkson, SR. 3 Reasons Why Health Care Costs Are Rising. KevinMD, 24 Nov. 2017.
3. Falkson, SR. How to Incentivize Higher Quality and Lower Cost in U.S. Medical Care. KevinMD, 28 Feb. 2018.

Professional educational materials or reports, in print or other media:

1. Falkson S, Neuman M, Hao D. “Does spinal anesthesia decrease the risk of postoperative delirium.” Depth of Anesthesia Podcast. Jul 30 2023.
<https://podcasts.apple.com/us/podcast/35-does-spinal-anesthesia-decrease-the-risk/id1461664155?i=1000622813231>
Podcast episode, Depth of Anesthesia Podcast

Thesis:

1. Investigating the Role of the Alpha Subunit of Inhibitory G Protein in Signaling from Tyrosine Receptor Kinase B in SH-⁻SY5Y Cells
Undergraduate Honors Thesis at Brown University

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings:

1. **Falkson SR**, Zhang K, Bhambhani HP, Wild JL, Griffin A, Kelley RK, Hayden Gephart M. Biliary Cancer Brain Metastases: A Multi-Institution Case Series with Case Reports. Medical Student & Resident Abstract Forum at the 2022 American Society of Clinical Oncology Annual Meeting. June 2022, Chicago, IL.
Featured as a Plenary Abstract

* Co-author, ** Mentee