Revised 9/20/2023

Joseph R. Pare, MD, MHS
CURRICULUM VITAE

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EDUCATION

Undergraduate	University of Vermont, Microbiology Major Bachelor of Science, 2006 Burlington, VT 2002 – 2006 Honors: Justin Morrill Honors Graduate Alexander Kende Academic Merit Award
Medical School	University of Vermont Doctor of Medicine, 2010 Burlington, VT 2006 - 2010
Graduate School	Yale University Masters of Health Science, 2016 New Haven, CT 2014-2016

POSTGRADUATE TRAINING

Residency	Boston Medical Center Emergency Medicine Residency One Boston Medical Center Pl. Boston, MA 2010-2013
Chief Resident	Boston Medical Center Emergency Medicine Residency One Boston Medical Center Pl. Boston, MA 2013-2014
Fellowship	Yale University Fellowship in Clinical Ultrasound 464 Congress Ave, New Haven, CT 2014-2016

OTHER EDUCATION/TRAINING

ARDMS	RDMS, Registered Diagnostic Medical Sonographer. #170073 Abdomen Applications 2013- Current
ABEM Certified	Advanced Emergency Medicine Ultrasonography FPD 2022
Advance CTR	Advance K Scholar Career Development Program 2022-2023

POSTGRADUATE HONORS AND AWARDS

Clinical Pathologic Case Semi-Finalist Winner, Society for Academic Emergency Medicine, 2011
This is an oral competition among residents in emergency medicine to present a challenging clinical case. The resident must present the case findings, and discussion of the case. The most dynamic and well-presented case is selected to advance to the national finals.

2nd Place Resident/Fellow Clinical Research Poster Competition, Massachusetts Medical Society, 2012
Award to recognize the best clinical research performed by any residents or fellow from all specialties within the state of Massachusetts.

Resident Research Award Nominee Academy of Emergency Ultrasound, 2012 & 2013
This is a national award provided to one resident annually who has performed the most outstanding research in the field of Emergency Ultrasound. Each institution is only allowed to nominate one individual.

SonoGames Champion, Society for Academic Emergency Medicine 2012 & 2013
This is a national competition of teams from emergency medicine residencies across the country. The competition tests clinical knowledge and skill in the field of emergency ultrasound. This award was won in two consecutive years.

SonoGames Champion, Society for Academic Emergency Medicine, Faculty Captain, 2015
This is a national competition of teams from emergency medicine residencies across the country. The competition tests clinical knowledge and skill in the field of emergency ultrasound. This award was won while faculty at Yale University.

Fellow Spotlight, American College of Emergency Medicine, 2016
This was a nationally selected recognition for contributions to the field of emergency ultrasound as a fellow.

Elite Reviewer, *Academic Emergency Medicine Journal*- 2018
Selected from a pool of applicants to act as a top reviewer for one of the highest impact factor and quality journals in the field of emergency medicine.

Provider Hall of Fame, Boston Medical Center 2018
This award was one of four provided to clinicians within the Department of Emergency Medicine based on patient experience scores.

Best research paper nominee (x2), co-author, SAEM Academy of Emergency Ultrasound, 2018
The AEUS SAEM SAEMMY research award identifies the top five POCUS investigators each year by publication category. Five authors are nominated per research category and one author receives the award.

Best research paper nominee, first author, SAEM Academy of Emergency Ultrasound, 2020
The AEUS SAEM SAEMMY research award identifies the top five POCUS investigators each year by publication category. Five authors are nominated per research category and one author receives the award.

Outstanding Reviewer, *Academic Emergency Medicine Journal*, 2020
Selected as one of 18 top peer reviewers *Academic Emergency Medicine,* one of the top emergency medicine journals based on impact factor and reputation.

Outstanding Reviewer, *Academic Emergency Medicine Journal*, 2021
Selected as one of 6 top peer reviewers *Academic Emergency Medicine,* one of the top emergency medicine journals based on impact factor and reputation.

Outstanding Reviewer, *Academic Emergency Medicine Journal*, 2022
Selected as one of 23 top peer reviewers *Academic Emergency Medicine,* one of the top emergency medicine journals based on impact factor and reputation.

Emergency Department Resident Teach-Off Runner Up, Boston Medical Center, 2021
This is an award provided annually to faculty who provide outstanding clinical education. The award is voted on by resident physicians, and I was honored in second place.

Chair's Award, Boston Medical Center, 2021
This award is provided by the chair to single faculty member or a group of faculty members for outstanding contributions to the department. This award was provided to the entire faculty group for their commitment and sacrifice during the COVID-19 pandemic.

Ultrasound Rising Star Research Award, SAEM Academy of Emergency Ultrasound 2021
This is a prestigious national award provided to one junior faculty within 5 years of fellowship for contributions to the field of emergency ultrasound through research.

2nd Place, Brown Emergency Medicine CPC Competition, 2022

This is an oral competition among residents and faculty in emergency medicine to discuss a challenging clinical case. The faculty must breakdown the case findings and discussion of the case leading to a diagnosis. The most dynamic and well-presented case is selected to advance to the national competition.

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

2/2014 – 4/2017	Connecticut License #52752
2/2016 – 4/2023	Massachusetts License #265691
2/2016 – 3/2025	Massachusetts Controlled Substances #MP1031789A
12/2015–12/2025	American Board of Emergency Medicine #56486
1/2022 – 06/2024	Rhode Island Medical License #MD18271
4/2022 – 12/2027	American Board of Emergency Medicine DFP Clinical Ultrasonography

ACADEMIC APPOINTMENTS

11/2022 – current	Researcher Without Compensation (WOC) Providence Veterans Affairs Hospital, Providence, RI
5/2022 – current	Assistant Professor, Teaching Scholar Track Department of Emergency Medicine Warren Alpert Medical School Brown University, Providence, RI
5/2022 – current	Adjunct Assistant Professor Department of Emergency Medicine Boston University School of Medicine, Boston, MA
7/2016 – 4/2022	Assistant Professor Department of Emergency Medicine Boston University School of Medicine, Boston, MA
7/2014 – 6/2016	Clinical Instructor Department of Emergency Medicine Yale University, New Haven, CT

HOSPTIAL APPOINTMENTS

7/2014 – 6/2016	Attending Physician Yale New Haven Hospital, New Haven, CT Department of Emergency Medicine
3/2015 – 12/2015	Attending Physician Veterans Hospital, West Haven, CT Department of Emergency Medicine (Appointed but did not work clinically)

7/2016 – 4/2022	Attending Physician Boston Medical Center, Boston, MA Department of Emergency Medicine
5/2016 – Current	Attending Physician Brown Emergency Medicine Department of Emergency Medicine Rhode Island Hospital, The Miriam Hospital, Hasbro Children's Hospital and Newport Hospital

DEPARTMENTAL LEADERSHIP APPOINTMENTS

2017- 2021	QPATH Ultrasound Committee Boston Medical Center, Boston, MA
2016-2022	Core Residency Education Faculty Boston Medical Center, Boston, MA
2020-2021	ED committee on midline roll-out, co-chair, Boston Medical Center, Boston, MA

NATIONAL APPOINTMENTS

2020-2023	**Emergency Ultrasound Research Subcommittee Co-Chair** American College of Emergency Physicians, Emergency Ultrasound Section
2021 - Current	**SAEM Foundation AEUS Grant Review Lead** Society for Academic Emergency Medicine annual grant review. Physician lead for the AEUS grant, RAMS-MS grant.

AREA OF FOCUS LEADERSHIP APPOINTMENTS

2013-2014 **Chief Resident**
Department of Emergency Medicine
Boston Medical Center

- Oversaw daily resident activities and responsibilities
- Took call for emergency administrative issues (1/3 of academic year)
- Developed and oversaw resident education including content for weekly conferences. Also responsible for maintaining attendance logs for residents and attendings for conference attendance.

- Maintained and developed the resident schedule across 4 hospitals and 48 Emergency Medicine Residents as well as numerous off service rotators such as: Internal Medicine, Podiatry, OB-GYN, etc.
- Assisted with personnel needs and issues that arose during the year such as personal or family emergencies for staff.

2015-2016 **Chief Ultrasound Fellow**
Department of Emergency Medicine
Yale University

- Oversaw two junior fellows
- Assisted with scheduling teaching and weekly teaching sessions
- Assisted with ultrasound machine upkeep and maintenance
- Assisted with administrative responsibilities including assisting with scheduling and planning the annual ultrasound course in Newport RI.

2017-2022 **Director of Ultrasound Research**
Emergency Department
Boston Medical Center

- Oversaw and assisted with project development, IRB submissions & training, and promoted clinical research.
- During this time the division had federal and foundation funding.
- Oversaw resident scholarly work within the ultrasound track
- Assisted with residency Journal Club.
- Held Bi-Annual research dinners at my home to promote research in emergency medicine in the residency

2021-2022 **Assistant Fellowship Director: Clinical Ultrasound Fellowship**
Emergency Department
Boston Medical Center

- Assisted with fellowship curriculum with the flexibility to accommodate learners with various goals (e.g. administrative, educational or research focuses)
- Train clinical ultrasound fellows. One Emergency Medicine and one Pediatric Emergency Medicine Fellow.
- Help develop and supervise fellow's required academic project
- Scan clinically with fellows and provide quality feedback on scans
- Obtained 3-year EUFAC accreditation for the BMC EM Ultrasound Fellowship, which allows for graduates to sit for the ABEM focused practice designation in advanced emergency medicine ultrasound (AEMUS).

2022- Present **Director of Ultrasound Research**
Emergency Department
Brown University

- Oversee and assist with project development, IRB submissions & training, and promote clinical research for residents, fellows, and faculty.
- Goal to increase funding and publications among division members
- Assist with resident scholarly work within the ultrasound tract
- Foster research opportunities for students at Brown Medical School and Undergraduate programs

2022 **Invited Mentor for National Ultrasound Grant Writing Course**
Worked with mentee to develop and submit grant for funding for foundation grant. Met with applicant biweekly for 3 months.

UNIVERSITY/DEPARTMENT COMMITTEES

1/2017- 6/2019 PEDI-EM Fellowship SOC Committee Dr. Binder
Lead Faculty Mentor
Boston Medical Center, Boston, MA

7/2017- 4/2022 EUS Fellowship Selection Committee
Boston Medical Center, Boston, MA

6/2020- 6/2021 PEDI Fellowship SOC Committee Dr. Stone
Co-Mentor
Boston Medical Center, Boston, MA

8/2020-4/2022 ED clinical hours committee
Member
Boston Medical Center, Boston, MA

10/2020-4/2022 ED health equity committee
Member
Boston Medical Center, Boston, MA

10/2021 ED Vice Chair for Health Equity and Population Health Interview Committee
Member
Boston Medical Center, Boston, MA

8/2022 - Current Emergency Ultrasound Quality Assurance FAST Project
Brown Physicians Inc., Providence, RI

10/2022 - Current	EUS Fellowship Selection Committee Brown Physicians Inc., Providence, RI
11/2022 - Current	Brown Faculty Recruitment Meet with applicants and discuss career with Brown Emergency Medicine
06/2023- Current	Brown Faculty Big Sibling Program Assist with onboarding and orientation for new faculty: Josh Bloom.

MEMBERSHIP IN SOCIETIES

2007-2009	American Association of Medical Colleges OSR • University of Vermont COM Representative
2010-2014	Emergency Medicine Resident's Association • Member & Representative (2012-2014)
2010-2014	Member, Massachusetts College of Emergency Physicians
2016- to date.	Member, Massachusetts Medical Society
2010- to date	American College of Emergency Physicians • 2010- 2016 Member • 2017- to date Fellow of the American College of Emergency Physicians • 2020- 2023 Subcommittee Co-chair Ultrasound Research
2010- 2018	Member, American Academy of Emergency Medicine
2010- to date	Member, Society for Academic Emergency Physicians • 2017- to date Grants committee member • Annual Meeting Abstract Reviewer • 2021 subcommittee lead • 2017- to date Research committee member
2013- to date	Member, American Registry for Diagnostic Medical Sonographers
2013- to date	Member, American Institute of Ultrasound in Medicine
2014-2016	Member, Connecticut College of Emergency Physicians
2020- to date	Society of Clinical Ultrasound Fellowships (SCUF) • Annual Meeting Preconference Planning Committee 2023

PUBLICATION LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

https://www.ncbi.nlm.nih.gov/myncbi/1ZCIpYqS68zozD/bibliography/public/

1. Egan DJ, **Pare JR**. Clinical pathologic conference: A 65-year-old male with left-sided chest pain. A case of an unexpected occupational hazard. Acad Emerg Med. 2012 Feb;19(2):e1-6. Doi: 10.1111/j.1553-2712.2011.01269.x. PubMed PMID: 22320376.
2. **Pare JR,** Guo Y, Schechter-Perkins EM. The evaluation of acute vision loss: central serous chorioretinopathy. Am J Emerg Med. 2014 Apr;32(4):396.e3-4. Doi: 10.1016/j.ajem.2013.10.054. PubMed PMID: 24342864.
3. **Pare JR,** Schechter-Perkins EM. Temperate pyomyositis: a pain in the belly. Am J Emerg Med. 2015 Feb;33(2):306.e3-4. Doi: 10.1016/j.ajem.2014.07.016. PubMed PMID: 25171794
4. Kennedy Hall M, Coffey EC, Herbst M, Liu R, **Pare JR**, Andrew Taylor R, Thomas S, Moore CL. The "5Es" of emergency physician-performed focused cardiac ultrasound: a protocol for rapid identification of effusion, ejection, equality, exit, and entrance. Acad Emerg Med. 2015 May;22(5):583-93. Doi: 10.1111/acem.12652. PubMed PMID: 25903585.
5. **Pare JR**, Moore CL. Intravenous Infiltration Resulting in Compartment Syndrome: A Systematic Review. J Patient Saf. 2015 Jul 31. PubMed PMID: 26241617.
6. Moore CL, Broder J, Gunn ML, Bhargavan-Chatfield M, Cody D, Cullison K, Daniels B, Gans B, Kennedy Hall M, Gaines BA, Goldman S, Heil J, Liu R, Marin JR, Melnick ER, Novelline RA, **Pare J**, Repplinger MD, Taylor RA, Sodickson AD. Comparative Effectiveness Research: Alternatives to "Traditional" Computed Tomography Use in the Acute Care Setting. Acad Emerg Med. 2015 Dec;22(12):1465-73. Doi: 10.1111/acem.12831. PubMed PMID: 26576033.
7. **Pare JR**, Langlois BK, Scalera SA, Husain LF, Douriez C, Chiu H, Carmody K. Revival of the use of ultrasound in screening for appendicitis in young adult men. J Clin Ultrasound. 2016 Jan;44(1):3-11. Doi: 10.1002/jcu.22282. PubMed PMID: 26178008.
8. **Pare JR**, Moore CL. Defining Fluid Responsiveness by the Velocity-Time Integral Alone? J Ultrasound Med. 2016 Feb;35(2):459-60. Doi: 10.7863/ultra.15.09047. PubMed PMID: 26795050
9. Taylor RA, **Pare JR**, Venkatesh AK, Mowafi H, Melnick ER, Fleischman W, Hall MK. Prediction of In-hospital Mortality in Emergency Department Patients With Sepsis: A Local Big Data-Driven, Machine Learning Approach. Acad Emerg Med. 2016 Mar;23(3):269-78. Doi: 10.1111/acem.12876. PubMed PMID: 26679719.
10. **Pare JR**, Liu R, Moore CL, Sherban T, Kelleher MS Jr, Thomas S, Taylor RA. Emergency physician focused cardiac ultrasound improves diagnosis of ascending aortic dissection. Am J Emerg Med. 2016 Mar;34(3):486-92. Doi: 10.1016/j.ajem.2015.12.005. PubMed PMID: 26782795.
11. **Pare JR**, Liu R, Moore CL, Safdar B. Corrected flow time: a noninvasive ultrasound measure to detect preload reduction by nitroglycerin. Am J Emerg Med. 2016 Sep;34(9):1859-62. Doi: 10.1016/j.ajem.2016.06.077. PubMed PMID: 27431739.

12. Daley J, Grotberg J, **Pare J,** Medoro A, Liu R, Hall MK, Taylor A, Moore CL. Emergency physician performed tricuspid annular plane systolic excursion in the evaluation of suspected pulmonary embolism. Am J Emerg Med. 2017 Jan;35(1):106-111. Doi: 10.1016/j.ajem.2016.10.018. PubMed PMID: 27793505.
13. **Pare JR**, Kothari AH, Schneider JI, Jacquet GA. Does the location of a narrative comment section affect feedback on a lecture evaluation form? Int J Med Educ. 2017 Apr 21;8:133-134. Doi: 10.5116/ijme.58e2.96c3. PMID: 28437247 PubMed PMID: 28437247.
14. Leo MM, Langlois BK, **Pare JR**, Mitchell P, Linden J, Nelson KP, Amanti C, Carmody KA. Ultrasound vs. Computed Tomography for Severity of Hydronephrosis and Its Importance in Renal Colic. West J Emerg Med. 2017 Jun;18(4):559-568. Doi: 10.5811/westjem.2017.04.33119. Epub 2017 May 15. PMID: 28611874
15. **Pare JR,** Pollock SE, Liu JH, Leo MM, Nelson KP. Central venous catheter placement after ultrasound guided peripheral IV placement for difficult vascular access patients. Am J Emerg Med. 2019 Feb;37(2):317-320. Doi: 10.1016/j.ajem.2018.11.021. PubMed PMID: 30471933
16. Schowalter S, Altawil Z, Schechter-Perkins EM, **Pare JR**. False Elevation of Volume Determined by Bladder Scanner Secondary to Bowel Obstruction. West J Emerg Med. Accepted Dec 19 2019. PMID pending
17. Binder ZW, O'Brien SE, Boyle TP, Cabral HJ, Sekhavat S, **Pare JR**. Novice Physician Ultrasound Evaluation of Pediatric Tricuspid Regurgitant Jet Velocity. West J Emerg Med. 2020 Jun 24;21(4):1029–35.
18. **Pare JR**, Camelo I, Mayo K, Leo M, Dugas J, Nelson K, et al. Point-of-care Lung Ultrasound Is More Sensitive than Chest Radiograph for Evaluation of COVID-19. West J Emerg Med. 2020 Jun 19;21(4):771-778. Doi: 10.5811/westjem.2020.547743. PubMed PMID: 32726240.
19. Stone BS, Muruganandan MK, Tonelli MM, Dugas JN, Verriet IE, **Pare JR**. Impact of point-of-care ultrasound on treatment time for ectopic pregnancy. Am J Emergency Med. 2021 doi: 10.1016/jajem.2021.05. PubMed PMID: 32726279.
20. Binder ZW, O'Brien SE, Boyle TP, Cabral HJ, **Pare JR**. Tricuspid Regurgitant Jet Velocity Point-of-Care Ultrasound Curriculum Development and Validation. The POCUS Journal. In press, 2021.
21. Gaspari R, Gleeson T, Alerhand, ….Pare J., ….. A Multicenter, Prospective Study Comparing Subxiphoid and Parasternal Views during Brief Echocardiography; Effect on Image Quality, Acquisition Time and Vizualized Anatomy. Journal of Emergency Medicine. In Press
22. Faiz J, Bernstein E, Schechter-Perkins E, Nentwich L, Nelson K, Cleveland E, **Pare J.** Racial Equity in Linkage to Inpatient Opioid Use Disorder Treatment in Patients Receiving Emergency Care. American Journal of Emergency Medicine.
23. **Pare J**, Gjesteby L, Telfer B, Brattain, L. Transfer Learning for Automated COVID-19 B-Line Classification in Lung Ultrasound. Accepted. IEEE Explore [Preprint]. 2022.

Acknowledgements

1. Jung CF, Breaud AH, Sheng AY, Byrne MW, Muruganandan KM, Dhanani M, Leo MM. Delphi method validation of a procedural performance checklist for insertion of an ultrasound-guided peripheral intravenous catheter. Am J Emerg Med. 2016 Nov; 34(11):2227-2230.View Related Profiles. PMID: 27645813; DOI: 10.1016/j.ajem.2016.08.006;

OTHER NON-PEER REVIEWED PUBLICATIONS

1. **Pare J.R.**, Schechter-Perkins E. Boston Globe – Letter to the Editor 4/21/2013. "In an instant, emergency dept. became wartime hospital"
2. Pare JR. "Medical Clearance." Visual Diagnosis Competition contributor. Kaposi's Sarcoma. SAEM Annual Meeting, Dallas TX, May 2014.
3. **Pare JR,** How to Develop an SAEMF Grant Application: Five Lessons Learned as a Junior Researcher. *SAEM Pulse* 2018, 6:20-1.
4. Russel F, **Pare JR.** Research learning series. Second ACEP Now. 2022

BOOK CHAPTERS

1. **Pare JR**, Kahn JH. Basic neuroanatomy and stroke syndromes. Emerg Med Clin North Am. 2012 Aug;30(3):601-15. Doi: 10.1016/j.emc.2012.05.004. Review. PubMed PMID: 22974640.
2. **Pare J.R.**, Schneider J. "Geriatric Chest Pain." Geriatric Emergency Medicine: Principles and Practice; March 2014, Cambridge University Press.
3. Mary Jo Wagner, "PEER IX: Physician Evaluation and Educational Review in Emergency Medicine." Contributor. ISBN: 098899738X.
4. Mayo K, **Pare JR**, "Vascular Access" Manual of Austere and Prehospital Ultrasound, 237-250. 2021
5. Gjesteby L, **Pare JR**, Brattain L. Ultrasound in the Extreme Environments of Emergency Department and Battlefield. Springer. 2022.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

Board prep question writer:

1. Rosh Review. Invited QBANK Question Writer. Advanced EM Ultrasonography. https://www.roshreview.com/em/

Web Publications and Videos:

1. Gottlieb M, Stolz L, Teran F, Kotini-Shah P, Pare J. ACEP EUS Research Learning Series. "Finding Your Niche and Identifying Successful Studies." Youtube. https://www.youtube.com/watch?v=gTLMtLvyMFI
2. ACEP Research Learning Series
    a. https://www.youtube.com/watch?v=gTLMtLvyMFI
3. LVEF assessment. https://ultrasoundbox.com/sfa

PUBLICATIONS IN PROCESS

1. **Pare J. R.,** Gjesteby L, Leo M, Tonelli M., Muruganandan M, Telfer B, Brattain L. Transfer learning for B-line assessment in Acute Heart Failure. Submitting to JACC.

RESEARCH IN PROCESS

1. Sex and Gender in Bedside Cardiac Ultrasound. Retrospective multi-center study evaluating the impact of patient gender on quality of bedside echocardiogram.
2. B line assessment using AI-PLUS, AI enabled software co-developed with MIT Lincoln lab.
3. AI Pleural Fluid detection. Development of software to auto recognize pleural fluid using ultrasound. Co-developing with MIT Lincoln Lab
4. Evaluation of hyperspectral imaging to assess the etiology of lower extremity edema. Collaboration with NIH, Dr. Bevil.
5. Development of a learning module for left ventricular systolic function assessment. Dr. Perice as the lead.
6. Evaluation of cardiac filling and ejection times during periods of increased right heart pressure. IRB approved by VA.
7. Evaluation of racial equity in use of point of care ultrasound for first trimester pregnancy. Work being conducted at Boston University.
8. Evaluating of STD testing and treatment for mycoplasma in the emergency department. . Work being conducted at Boston University.
9. National Committee via Delphi to develop best practices for the performing and reporting of POCUS research.

ABSTRACTS

1. Fowler TJ, **Pare J.R.**, Baker C. Few sequence constraints hinder *Schizophyllum* pheromone function in yeast. XXIII Fungal Genetics Conference, Pacific Grove CA, March 20th 2005
2. **Pare J.R.**, Myzak, M, Fialkovich J . Fadeyibi A, Giberson M. Kaserman J et al., Barriers to Completing Colonoscopy Screenings APHA Annual Meeting, San Diego CA, October 28th 2008
3. **Pare J.R.**, Saijwani S, Farooq L, Douriez C, Chui H, Leo M, Carmody K. Ultrasound as a first-line imaging modality for appendicitis: Does it reduce health care costs, radiation exposure and length of stay in emergency department patients? ACEP Annual Meeting Denver CO, October 2012 & Mass Medical Society Research Poster Symposium Waltham MA, Nov, 2012
4. Leo M, Langlois B, Moore R, Lin SC, Rahimi L, Linden J, **Pare J.R.**, Libby B, Mitchell P, Carmody K. Comparison of Emergency Physician Performed Bedside Ultrasound vs. Computed Tomography in The Diagnosis of Renal Colic. SAEM Annual Meeting, Atlanta GA, May 2013 & NERDS (SAEM Regional Meeting) Lightning Oral Presentation, Providence RI, April 2013.
5. **Pare J.R.**, Kothari A, Schneider J, Jacquet G. Location, Location, Location: Does the Location of a Narrative Comment Section Effect Feedback on a Lecture Evaluation Form? NERDS Annual Meeting, New Haven CT, March 2014, CORD Annual Meeting, New Orleans LA, March 2014, & SAEM Annual Meeting, Dallas TX, May 2014
6. **Pare J.R.,** Moore CL. Intravenous Infiltration Resulting in Compartment Syndrome: A Systematic Review. NERDS Annual Meeting, Boston MA, April 2015

7. **Pare J.R**. Liu R., Moore C.L., Sherban T., Kelleher M.S., Thomas S., Taylor R.A Emergency Physician FOCUS Exam Improves Diagnosis of Ascending Aortic Dissection CCEP Annual Meeting, Hartford CT, September 2015 & AIUM Annual Meeting, New York NY, March 2016.
8. **Pare J.R,** Pang P., Noble V., Moore C., Sam F.Corrected Flow Time, A Novel Noninvasive Measure to Assess Changes in Volume Status for Patients with CHF HFSA Annual Meeting, Grapevine TX, September 2017 & ACEP Annual Meeting, Washington DC, October 2017.
9. Pollock S., Liu J., **Pare JR.** Risk Factors Predicting Long-term Vascular Access after Ultrasound Guided Peripheral Venous Access.Mass Medical Society Research Poster Symposium, Waltham, MA December 2018.
10. Crosby J. Stackenfield N., **Pare JR** Moore C**.** Doppler Ultrasound for the Measurement of Intravascular Volume Status During Lower Body Negative Pressure Simulation" NERDS Annual Meeting, Worcester MA, March 2018.
11. Binder Z., O'Brien S., Boyle T., Cabral H., Skhavat S., **Pare J.R**. Echocardiographic Assessment of Tricuspid Regurgitant Jet Velocity in a Pediatric Population by Novice Sonographers. NERDS 19; New England Regional Meeting SAEM Worcester MA, October 2019, 7th Annual New England Fellows Conference, West Haven, CT, October 2019, Pediatric Academic Societies (PAS), Baltimore MD, April 2019.
12. Faiz J., Bernstein E., Dugas J., Nelson K., Perkins E., Nentwich L., **Pare J.** Evaluation of Race and Ethnicity as Barriers to Inpatient Treatment for Opioid Use Disorder. NERDS 20; New England Regional Meeting of the Society of Academic Emergency Medicine, Worcester MA, October 2020 (CANCELD DUE COVID) & SAEM Annual Meeting, Virtual due to COVID, May 2020.
13. Faiz J., Bernstein E., Dugas J., Nelson K., Perkins E., Nentwich L., **Pare J.** Non-white Patients Are More Likely to Present Repeatively for Opioid Use Disorder Treatment. NERDS 20; New England Regional Meeting of the Society of Academic Emergency Medicine, Worcester MA, October 2020 (CANCELD DUE COVID) & SAEM Annual Meeting, Virtual due to COVID, May 2020.
14. **Pare J**, Gjesteby L, Telfer B, Brattain, L. Transfer Learning for Automated COVID-19 B-Line Classification in Lung Ultrasound. 24th Annual International Conference of the IEEE in EMBC. Glasgow Scotland. July 2022.
15. Zimmerman B, …. **Pare JR**…. Dwyer K. Multisite Study on Sex and Gender Equity in Focused Cardia Ultrasound. SAEM New England Regional Meeting. April 5, 2023 and Society of Academic Emergency Medicine Annual Meeting, Austin Texas 5/17/2023.

INVITED PRESENTATIONS

LOCAL

1. June, 2014 "M&M: Take Our Breath Away", Boston Medical Center, Boston, MA *[Combined Grand Rounds, Co-Presenter: Dr. Anne Woolley, MD]*
2. June, 2014 "PGY-1 Ultrasound Orientation" Yale University, New Haven, CT *[Core EM Residency small groups]*
3. June, 2015 "PGY-1 Ultrasound Orientation" Yale University, New Haven, CT *[Core EM Residency small groups]*

4. June, 2016 "PGY-1 Ultrasound Orientation" Yale University, New Haven, CT *[Core EM Residency small groups]*
5. July, 2016 "PGY-2 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
6. April, 2017 "Ultrasound Sonowars", Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
7. June, 2017 "PGY-1 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
8. July, 2017 "PGY-2 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
9. August, 2017 "Core Ultrasound Lecture", Boston Medical Center, Boston, MA *[Faculty Core EM Residency lecture]*
10. March, 2018 "Cardiac Ultrasound", Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
11. April, 2018 "Ultrasound College", Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups, ultrasound college]*
12. April, 2018 "Ultrasound Sonowars", Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
13. June, 2018 "PGY-1 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
14. July, 2018 "PGY-2 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
15. March, 2019 "Advanced Cardiac Ultrasound", Boston Medical Center, Boston, MA *[Faculty Core EM Residency lecture]*
16. April, 2019 "Ultrasound Sonowars", Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
17. June, 2019 "PGY-1 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
18. July, 2019 "PGY-2 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
19. October, 2019 "Pass the Pointer- Ultrasound Lecture" Boston Medical Center, Boston, MA *[Faculty Core EM Residency lecture]*
20. June, 2020 "PGY-1 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
21. July, 2020 "PGY-2 Ultrasound Orientation" Boston Medical Center, Boston, MA *[Faculty Core EM Residency small groups]*
22. October, 2020 "Unsolved Mysteries of the ER", Boston Medical Center, Boston, MA *[Faculty Core EM Residency lecture]*
23. December, 2020 "Midlines", educational day to instruct staff on how to place midline catheters, Boston Medical Center, Boston, MA *[Faculty lecturer and hands on instruction]*
24. January, 2021 "Rainbow Night with BMC Emergency Medicine", Boston Medical Center, Boston, MA *[LGBTQ residency recruitment panel discussant]*
25. February, 2021 "Worst Headache of Life," Residency Journal Club, Boston Medical Center, Boston, MA *[Faculty mentor and discussant]*

26. November, 2021 "Pass the Pointer" Core Residency Lecture, Boston Medical Center, Boston, MA *[Faculty Presenter]*
27. September, 2022 "CPC" Core Residency Lecture, Brown Residency Program, Providence RI *[Faculty Presenter]*
28. February, 2023 "First Trimester Pregnancy, POCUS Lecture" Core Residency Lecture, Brown Residency Program, Providence RI *[Faculty Presenter]*
29. April, 2023 "Nerve 'block' party" Pediatric Emergency Medicine Conference, Providence RI *[Faculty Hands-On Instructor]*

REGIONAL

1. December, 2012 "Emergencies and Procedures in Pediatrics Course", Harvard Medical School, *[Ultrasound hands-on instructor]*
2. September, 2014 "New England Regional Ultrasound Course", Yale University, Newport RI, *[Lecturer and hands-on instructor]*
3. November, 2014 "Point of Care Ultrasound Course", Yale University, Seward Health Care- Brockton, MA *[Hands-on instructor]*
4. September, 2015 "New England Regional Ultrasound Course", Yale University, Newport RI, *[Lecturer and hands-on instructor]*
5. September, 2016 "New England Regional Ultrasound Course", Yale University, Newport RI, *[Lecturer and hands-on instructor]*
6. September, 2017 "New England Regional Ultrasound Course", Yale University, Newport RI, *[Lecturer and hands-on instructor]*
7. October, 2018 Portland Point of Care Ultrasound Course, Maine Medical Center, Portland, ME, *[hands-on instructor]*
8. September, 2018 "New England Regional Ultrasound Course", Yale University, Newport RI, *[Lecturer and hands-on instructor]*
9. September, 2019 "New England Regional Ultrasound Course", Yale University, Newport RI, *[hands-on instructor]*
10. December, 2019 "Soft Tissue Lecture," Massachusetts College of Emergency Physicians Point of Care ultrasound course, Waltham, MA *[Lecturer and hands-on instructor]*
11. October, 2022 "MGH Bedside Ultrasound Course", Harvard Medical School, *[Invited Ultrasound hands-on instructor]*
12. January, 2023 "DVT Ultrasound," University of Vermont Point of Care Ultrasound course, Stowe, VT *[Lecturer and hands-on instructor]*
13. January, 2023 "Lung Ultrasound," University of Vermont STOWE-EM Conference, Stowe, VT *[Lecturer]*

NATIONAL

National:

1. May 2011 "A 65-year-old Male with Left-Sided Chest Pain. A case of an Unexpected Occupational Hazard" Semi Final CPC Presentation. SAEM Annual Meeting, Boston

2. October 2011 "Don't Know Much. A case of Myxedema Coma" Finalist CPC Presentation. ACEP Annual Meeting, San Francisco CA, October 15th 2011
3. March, 2015 "Caribean Ultrasound Course", Yale University, San Juan, Puerto Rico *[Lecturer and hands-on instructor]*
4. April, 2015"SonoRound Table", Emergency Ultrasound, Podcast *[Fellow Discussant]*
5. March, 2016 "Caribean Ultrasound Course", Yale University, Miami, FL *[Lecturer and hands-on instructor]*
6. May, 2016 "Lion's Den, Faculty Presenter", SAEM , New Orleans, LA *[Lecturer]*
7. February, 2018 "Caribean Ultrasound Course", Yale University, Clearwater, FL *[Lecturer and hands-on instructor]*
8. October, 2018 "Corrected Flow Time (FTC) Holy Grail or Holy Fail" San Diego, CA, *[Lecturer]*
9. August, 2021 "ACEP EUS Research Learning Series, Session 1" online, *[panelist, organizer]*
10. November, 2021 "ACEP EUS Research Learning Series, Session 2" online, *[moderator, organizer]*
11. Februrary, 2022 "ACEP EUS Research Learning Series, Session 3" online, *[moderator, organizer]*
12. SAEM Grant Writing Workshop. Faculty Member May 2022
13. LGBTQIA+ Families how to be an ally. Oral didactic SAEM 2022. Developer and panelist.
14. SAEM Grant Writing Lecture. Invited Faculty May 2022.
15. ACEP Research Learning Series. Panel moderator. February 2022.
16. SCUF Tackling Your Academic Project. Invited Lecturer. September 2023.

INTERNATIONAL

1. 11/2015 "Santiago Chile Ultrasound Coures", Santiago Chile *[Invited hands-on instructor]*
2. 11/2015 "Fluid Responsiveness: Quest for the Holy Grail", Grand Rounds Sotero Hospital, Santiago Chile *[Invited lecture]*

REVIEWER/EDITORIAL ACTIVITIES

Ad Hoc Reviewing

2014	Reviewer, *Canadian Journal of Emergency Medicine*
2016- to date	Reviewer, *American Journal of Emergency Medicine*
2016- to date	Reviewer, *Academic Emergency Medicine*
2018- to date	Reviewer, Ultrasound G.E.L. Podcast

GRANTS

Current:

9/2022-10/2023	MIT Lincoln Lab Collaboration: PI Brattain, PhD

	Internal Funding to support AI development for Lung Ultrasound for pleural fluid detection. Total estimated budget: $150,000 Role: Site PI
9/2022-10/2023	BPI Grant: PI Pare, MD MHS To test AI developed software for lung ultrasound and expand to new applications Total estimated budget: $50,000 Role: PI
1/2023-12/2023	Brown Faculty Development Grant: PI Pare, MD MHS To test hyperspectral imaging to identify different causes of lower extremity swelling. Total estimated budget: $40,000 Role: PI

Past:

9/2021-10/2022	MIT Lincoln Lab Collaboration: PI Brattain, PhD Internal Funding to support AI development for Lung Ultrasound for B-line detection for CHF. Total estimated budget: $150,000 Role: Site PI
5/2020-10/2021	MIT Lincoln Lab Collaboration: PI Brattain, PhD Internal Funding to support AI development for Lung Ultrasound for COVID-19. Total estimated budget: $100,000 Role: Site PI
7/2018 – 6/2019	SAEMF AEUS Grant PI: Pare, MD MHS SAEM Ultrasound Grant. “Superior Venous Access, Midline vs Ultrasound Ivs, a randomized control trial.” Cost, Total: $10,000 Role: PI
10/2016 – 10/2017	HFSA EMF Grant PI: Pare, MD MHS Acute Heart Failure Young Investigator Award. “CRUSH STUDY: Calculating Readmission Risk by Ultrasound for Heart Failure. Cost, Total: $79,965 Role: PI
05/2015 – 08/2015	Summer Research Fellowship Grant: PI Sherban Medical Student Summer Research Project Cost, Total: $4,000

Role: Faulty Mentor, Study PI

UNIVERSITY/HOSPITAL TEACHING, ADVISING and MENTORING ROLES

Warren Alpert Medical School of Brown University: Medical Student Courses

2022 - Current — EM Point of Care Ultrasound (EM-5640)
Warren Alpert Medical School of Brown University
- Faculty 2022 - Current
- ~10-15 Brown Medical Students enroll per academic year

2023 – Current — Emergency Medical Systems: Anatomy of Critical Performance (BIOL 1530)
Brown University
- Clinical Medical Observation

Warren Alpert Medical School of Brown University: Intern/Resident Courses

2022 - Current — Brown Emergency Medicine Intern Rotation: Point of Care Ultrasound
- Interns have a required one-month ultrasound rotation with the Emergency Ultrasound Division
- Daily scanning in the department
- Weekly didactic, journal club and image review conference
- 14 Interns per year

2022- Current — Brown Emergency Medicine Senior Resident Rotation: Point of Care Ultrasound
- Residents have a required one-month ultrasound rotation with the Emergency Ultrasound Division
- Daily scanning in the department
- Weekly didactic, journal club and image review conference

Boston University Medical School Courses:

2016 - 2022 — EM Point of Care Ultrasound
Boston University Medical School
- Faculty 2016 - 2022
- ~15-20 Medical Students enroll per academic year

Boston Medical Center Emergency Medicine Residency Courses

2016 - 2022 Emergency Medicine Intern Rotation: Point of Care Ultrasound

- Interns have a required one-month ultrasound rotation with the Emergency Ultrasound Division
- Daily scanning in the department
- Weekly didactic, journal club and image review conference
- 12 Interns per year

2016 - 2022 Emergency Medicine Senior Resident Rotation: Point of Care Ultrasound

- Residents have a required one-month ultrasound rotation with the Emergency Ultrasound Division
- Daily scanning in the department
- Weekly didactic, journal club and image review conference

Yale University Medical School Courses:

2014 - 2016 EM Point of Care Ultrasound
Yale Medical School

- Faculty 2014 - 2016
- ~10-15 Medical Students enroll per academic year

2014-2016 EM Point of Care Ultrasound Pilot Course

- Faculty 2014 – 2016
- Small groups of 3-5 students to learn and integrate point of care ultrasound into basic courses such as anatomy and physical exam skills.

MENTORING ROLES
UNDERGRADUATE STUDENTS

2022-2023 Ryan Traub (Connecticut College)

- Provided research mentorship on a study evaluating the use of point of care ultrasound (POCUS) for trauma as well as lung ultrasound.
- Oversaw paid summer research program and ongoing per diem work.

2022-2023 Vishwas Duggirala (Brown University PLME program)

- Currently mentoring and working to submit application for Brown Emergency Medicine SRA program (10 week mentored paid program with EM faculty member).

MEDICAL STUDENTS

2015 Tyler Sherban (Quinnipiac Medical School '18)

- Provided research mentorship on a study evaluating the use of point of care ultrasound (POCUS) to improve time to diagnosis and risk of missed diagnosis for aortic dissection.
- Acted as PI for this study which resulted in an accepted abstract and peer reviewed publication.
- Acted as mentor for Quinnipiac Medical School summer research grant for $4,000.00.

2015-2016 John Grotberg (Yale University Medical School '18)

- Provided research mentorship and assisted on research projects as a medical student.
- Resulted in peer review publication and thesis for Yale medical school graduation.

2017-2018 Varsha Muralidhar (Boston University School of Medicine '20)

- Provided research mentorship and assisted on research projects as a medical student on pulmonary ultrasound.
- Provided a paid research position for her to complete research as a medical student.

2017-2018 Samara Pollock (Boston University School of Medicine '21)

- Provided research mentorship and assisted on research projects as a medical student on pulmonary ultrasound and vascular access.
- Provided a paid research position for her to complete research as a medical student.
- Resulted in abstract acceptance and peer review publication.

2022-2023 David Dorfman (Brown University)

- Agreed to mentor student on academic research project. Student has been added to the IRB for lung ultrasound work and we will start training for patient enrollment 2023.

EMERGENCY MEDICINE RESIDENTS

2015 – 2016 Bruno Fontes, MD (Yale Emergency Medicine Residency)

- Provided research mentorship and assisted on research projects as a resident on carotid ultrasound to guide fluid resuscitation for patients who present with sepsis to the Emergency Department
- Submission of research to complete his scholarly requirement project
- Mentored resident during his elective in Research

2019 – 2023 Jessica Faiz, MD (Boston Medical Center EM Residency)

- Provided research mentorship and assisted on research projects as a resident on racial disparities in linkage to detox from the emergency department.
- Submission of research to complete her scholarly requirement project and two abstract presentations and peer reviewed publication.
- Mentored resident during her 1-month elective in research
- Chief Resident
- Ongoing remote mentorship as fellow at the national clinical scholars program at UCLA.
- General career mentorship regarding academic and career development.

2019 – 2021 Diandra Escamilla, MD (Boston Medical Center EM Residency)

- Provided research mentorship and assisted on research projects as a resident on point of care ultrasound and timing for early pregnancy.
- IRB preparation and approval.
- Mentored resident during her 1-month elective in research

2019 – 2020 Zaid Altawil, MD (Boston Medical Center EM Residency)

- Provided mentorship and acted as primary faculty mentor on case report resulting in acceptance of peer reviewed publication on bowel obstruction and SMA syndrome.

2019 – 2020 Andrew Mittelman, MD (Boston Medical Center EM Residency)

- Provided mentorship and acted as primary faculty mentor on case report resulting in acceptance of case for clinical images exhibit at national conference SAEM.
- Chief Resident

2019 – 2020 Suzzanne Leslie, MD (Boston Medical Center EM Residency)

- Provided mentorship and acted as primary faculty mentor on scholarly project as a resident on diagnosis of cardiac tamponade.
- Assisted resident with IRB submission, research planning and design, data collection.

2020 – 2021 Katherine Wegman, MD (Boston Medical Center EM Residency)

- Provided mentorship and guidance on case report resident was preparing. Reviewed best practices for consent and patient privacy and institutional requirements for case reports.
- General career mentorship regarding academic and career development.

2022 – 2023 Danielle Kerrigan & Sean Reid MD (Brown EM Residency)

- Faculty assisting with QA/QI project for FAST documentation as a part of trauma center designation requirements.

EMERGENCY MEDICINE FELLOWS

2016-2018 Jill Crosby, MD MHS (Yale University)

- Provided mentorship and acted as mentor on scholarly project as a fellow on intravascular volume assessment and changes in carotid ultrasound measures.
- Assisted with patient enrollments and study design.
- Provided feedback on Thesis to obtain MHS from Yale University.

2018-2020 Kelly Mayo, MD (Boston University)

- Provided mentorship and acted as primary mentor on scholarly project as a resident and fellow on vascular access and how point of care ultrasound reduces time for first trimester pregnancy assessment.
- Assisted with IRB submission, patient enrollments and study design.
- Completed fellowship research requirements. Work together has resulted in peer reviewed publication.

2018-2020 Zachary Binder, MD (Boston University)

- Provided mentorship and acted as primary mentor on scholarly project as a fellow on cardiac ultrasound for pediatric patients.
- Assisted with IRB submission, patient enrollments and study design.

- Completed fellowship research requirements. Work together has resulted in two peer reviewed publications and several presented abstracts.
- Acted as primary mentor for his SOC for fellowship graduation.

2020-2023 Melinda Tonelli, MD (Boston University)

- Provided mentorship and acted as primary mentor on scholarly project as a fellow on hepatic Doppler flow during dialysis.
- Assisted with IRB submission, patient enrollments, study design, statistical plans, and manuscript preparation (in process).
- Completed fellowship research requirements. Work together has resulted in peer reviewed publications

2020-2021 Beth Stone, MD (Boston University)

- Provided mentorship and acted as primary mentor on scholarly project as a fellow on point of care ultrasound and ectopic pregnancy.
- Assisted with IRB submission, data collection, study design, statistical plans, and manuscript preparation.
- Completed fellowship research requirements and acted as mentor for pediatric fellowship SOC. Work together resulted in peer reviewed publication.
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2020-2022 Justin Moher, MD (Boston University)

- Provided mentorship and acted as primary mentor on scholarly project as a fellow on point of care ultrasound and racial disparities in diagnostic testing.
- Assisted with IRB submission, data review, study design, statistical plans, and manuscript preparation (in process).
- Completed fellowship research requirement.
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2020-2022 Rachel Shing, MD (Boston University)

- Provided mentorship and acted as mentor on scholarly project as a fellow on point of care ultrasound and telemedicine.
- Assisted with IRB submission and study design.

2022-2023 Stephanie Demasi, MD (Virgina Commonwealth University)

- Provided mentorship and grant writing feedback on submission on ultrasound and compartment syndrome.
- Awarded 10,000 SAEM grant to conduct research.

EMERGENCY MEDICINE FACULTY

2021-2023 Natalija Farreel, PharmD (Boston University)

- Provided mentorship and support for research and faculty development.
- Assisted with IRB submission, data review, study design, statistical planning on study to evaluate guidelines for treatment of *Mycoplasma genitalium*. IRB still active and project ongoing.

2022- Current Leland Perice, MD (Brown University)

- Provided mentorship and support for research and faculty development.
- Submitted Brown Emergency Medicine faculty development grant.