

Curriculum Vitae Shirley Lai-Ling Wu

BUSINESS ADDRESS:

55 Claverick Street, 2nd floor
Providence, RI 02903
617.416.2098
wu_shirley@outlook.com

EDUCATION

Undergraduate	Bates College Bachelor of Science in Biology Lewiston, ME 1999 to 2003 Honors: Dean's List
Medical School	St. George's University School of Medicine St. George's, Grenada 2005 to 2009 Honors: Dean's List, Iota Epsilon Alpha (IEA) International Medical Honor Society

POSTGRADUATE TRAINING

Residency	Beaumont Health System Emergency Medicine Program Royal Oak, MI 2009 to 2012
Fellowship	University of Connecticut Hartford Hospital Emergency Medicine Ultrasound Fellowship Hartford, CT 2012 to 2013

OTHER EDUCATION/TRAINING

ABEM Certified	Advanced Emergency Medicine Ultrasonography, Focused Practice Designation (FPD) 2022
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POSTGRADUATE HONORS AND AWARDS

Emergency Medicine Jeopardy-1st place, Beaumont Health System. 2010.
Monthly competition integrated into didactics where emergency medicine board questions are presented in a jeopardy format. Points accumulate for the academic year.

Clinical Pathological Case Presentation - Semi Finals, Society for Academic Emergency Medicine. Boston, Massachusetts. June 2011.

A yearly national competition during SAEM annual conference where interesting cases are presented. Award judged on case presentation, diagnostic data, discussion of differential diagnosis, logically narrowing the list to few selected probable diagnoses and eventually reaching a final diagnosis and its brief discussion.

SonoGames—1st place, Society for Academic Emergency Medicine (SAEM) Dallas, Texas. May 2014. Faculty leader.

A national ultrasound competition in which emergency medicine residents demonstrate their mad skills and knowledge of point-of-care ultrasound in an exciting and educational format.

Dean's Excellence in Teaching Award, Brown Alpert Medical School. 2017.

The Dean's Excellence in Teaching Award recognizes Warren Alpert Medical School faculty members who are exceptional teachers and mentors.

Dean's Excellence in Teaching Award, Brown Alpert Medical School. 2018.

The Dean's Excellence in Teaching Award recognizes Warren Alpert Medical School faculty members who are exceptional teachers and mentors.

Excellence in Medical Student Education Award, Brown Physicians, Inc. Brown Emergency Medicine. 2018.

This award recognizes a faculty member's high-quality contributions to medical student education in advancing the specialty of EM.

Contribution to the Section, The Emergency Ultrasound Section, American College of Emergency Physicians. 2018.

Given in recognition for commitment and service to the Emergency Ultrasound Section, leading to the advancing to clinical ultrasound.

Certificate of Recognition, Compassion Accountability Respect Excellence (C.A.R.E.), Lifespan. 2019.

Awards the physician with outstanding contribution to enhancing the patient experience at The Miriam Hospital.

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Board Certification	American Board of Emergency Medicine, November 2013.
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2012 - present	Registered DEA
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2012 - 2016	Connecticut State Medical License
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2016 - present	Rhode Island State Medical License
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ACADEMIC APPOINTMENTS

2013 - 2016	Assistant Professor Department of Traumatology and Emergency Medicine University of Connecticut School of Medicine
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2016 - present	Assistant Professor, Clinician Educator
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Department of Emergency Medicine
Alpert Medical School, Brown University

HOSPITAL APPOINTMENTS

2012 - 2016	Attending Physician Department of Traumatology and Emergency Medicine Hartford Hospital
2016 - present	Attending Physician Department of Emergency Medicine Rhode Island Hospital and The Miriam Hospital

AREAS OF FOCUS LEADERSHIP APPOINTMENTS

2013 - 2016	Assistant Ultrasound Director, Ultrasound Division Department of Emergency Medicine University of Connecticut Hartford Hospital
2016 - present	Ultrasound Faculty Brown Emergency Medicine Alpert Medical School, Brown University
2016 - 2018	Medical School Emergency Ultrasound Program Director Department of Emergency Medicine Alpert Medical School, Brown University
2018 - 2019	Director of Ultrasound Education Brown Emergency Medicine Alpert Medical School, Brown University

NATIONAL APPOINTMENTS

2017-2019	Emergency Ultrasound Subcommittee Chair: SonoGuide American College of Emergency Physician (ACEP)
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MEMBERSHIP IN SOCIETIES

2009	American College of Emergency Physician (ACEP)
2012	American College of Emergency Physician Ultrasound Chapter Society for Academic Emergency Medicine (SAEM) Academy of Emergency Ultrasound
2013	American Institute of Ultrasound in Medicine (AIUM)

PUBLICATION LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Farabaugh A, Mischoulon D, Fava M, **Wu SL**, Mascarini A, Tossani E, Alpert JE. The relationship between early changes in the HAMD-17 anxiety/somatization factor items and treatment outcome among depressed outpatients. *Int Clin Psychopharmacol*. 2005. Mar: 20(2): 87-91.
2. Yeung A, Yong X, **Wu S**, Kam R, Yin P, Fava M. Stigmatization of mental illnesses among Chinese and Chinese American psychiatric patients towards their illnesses, and how this affects treatment of psychiatric disorders. American Psychiatric Association-Annual Conference. Atlanta, Georgia. May 2005.
3. Loukas M, Tubbs RS, El-Sedfy A, Jester A, Polepalli S, Kinsela C, **Wu S**. The clinical anatomy of the triangle of Petit. *Hernia*. 2007, Oct: 11(5): 441-4.
4. Yeung A, Fung F, Yu S, Vorono S, Ly M, **Wu S**, Fava M. Validation of the Patient Health Questionnaire-9 for depression screening among Chinese Americans. *Comprehensive Psychiatry*. 2008. Mar-Apr: 49(2): 211-217.
5. Mischoulon D, Best-Popescu C, Laposata M, Merens W, Murakami J, **Wu S**, Papakostas G, Dording C, Sonawalla S, Nierenberg A, Alpert J, Fava M. A Double-Blind Dose-Finding Pilot Study of Docosahexaenoic Acid (DHA) for Major Depressive Disorder. *Eur Neuropsychopharm*. 2008. Sept: 18(9): 639-645.
6. Yeung A, Shyu I, Fisher L, **Wu S**, Yang H, Fava M L, Yang H, Fava M. Culturally Sensitive Collaborative Treatment (CSCT) for Depressed Chinese Americans in Primary Care. *American Journal of Public Health American Journal of Public Health*. 2010. 100 (12): 2397-2402.
7. Blood A, Iosifescu D, Makris N, Perlis R, Kennedy d, Dougherty D, Kim BW, Lee M **Wu S**, Lee S, Calhoun J, Hodge S, Fava M, Rosen B, Smoller J, Gasic G, Breiter H. Microstructural Abnormalities in Subcortical Reward Circuitry of Subjects with Major Depressive Disorder. *PLoS ONE*. 2010. Nov: 5(11): 1-14.
8. Herbst MK, Carter EM, **Wu S**, Dietrich CF, Hoffmann B. Feasibility of pneumoperitoneum diagnosis using point-of-care ultrasound: a pilot study using a fresh cadaver model. *Med Ultrason*. 2021 Sep 11. PMID: 34508617.
9. Wanjiku G, Dreizler L, **Wu S**, Baird J, and Wachira B. Utility of hand-held ultrasound for image acquisition and interpretation by trained Kenyan providers. *The Ultrasound Journal*. (2023) 15:12. <https://doi.org/10.1186/s13089-023-00308-7>
10. **Wu S**, Parkman T, Dunsinger S, Deciccio D, Anderson A, Lash E, Fletcher J, Galvin W, Rose-Petruck F, Becker B, Rose-Petruck C. Comparing the Accuracy of micro-focus x-ray technology to standard clinical ultrasound for locating small glass foreign bodies in soft tissue. *Applied Sciences*. 2023, 13(11):6551. <https://doi.org/10.3390/app13116551>

BOOKS AND BOOK CHAPTERS

1. **Wu S**. (2018) Pericardiocentesis. Lewiss R, Jones R, and Stroney R. *Practical Guide to Critical Ultrasound, Volume 2*. Dallas, Texas: American College of Emergency Physicians.

OTHER NON-PEER REVIEWED PUBLICATIONS

1. **Wu S**, Herbst M. Cases That Count: Elderly Female from Home Found Unresponsive in Bathroom. ACEP Emergency Ultrasound Section Newsletter, <http://www.acep.org/_Ultrasound-Section-Microsite/Cases-That-Count--Elderly-Female-from-Home-Found-Unresponsive-in-Bathroom/>. Feb 2016.
2. The Miriam Hospital Emergency Medicine 5 Minute Teaching Rounds-Priapism. January 2017.
3. The Miriam Hospital Emergency Medicine 5 Minute Teaching Rounds-Thoracentesis. January 2017.
4. **Wu S**, Lash E. Brown Emergency Medicine Point-of-Care Ultrasound Manual. December 2018.
5. Wanjiku GW, **Wu S**, Dwyer K, Henwood, P. Use of handheld ultrasound devices in rural Kenya: Opportunities and challenges. ACEP Ultrasound Newsletter, December 2018.
6. Wanjiku GW, **Wu S**, Dwyer K, Henwood, P. International Ultrasound: Opportunities and challenges for the use of handheld ultrasound devices in rural Kenya. ACEP Emergency Ultrasound Newsroom, March 2019.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

1. Brown Sound: POCUS: Shoulder Dislocation, November 2016. Image contributor. <http://brownemblog.com/blogposts/2016/11/30/pocus-shoulder-dislocation>
2. Brown Sound: Firecracker vs Testicle, March 2018. Image contributor. <http://brownemblog.com/blogposts/2018/3/5/brown-sound-fireball-pocus-case-of-the-month>
3. SonoGuide. American College of Emergency Physicians, Ultrasound Chapter. 2017-2019. Co-editor. <https://www.acep.org/sonoguide>
 - ACEP's point-of-care ultrasound website aimed to understand the scope of practice of emergency ultrasound
 - Restructured ACEP's existing SonoGuide website
 - Collaborated with physicians nationally and internationally to update and add new chapters
4. UltrasoundBox: Renal, July 2022. <https://ultrasoundbox.com/renal/block-15>
5. FAST learning Module for Ultrasound Box, Browser based education platform. Co-creator. 2023 in process. <https://ultrasoundbox.com/>
 - Mobile web application centered around ultrasound education
 - Created a FAST learning module that was then implemented into our medical student rotation
 - Teaches the FAST exam by having the learner actively interpret ultrasound clips
 - Usable on all mobile devices and phones

PUBLICATIONS SUBMITTED OR IN PREPARATION

ABSTRACTS

1. **Wu S**, Parkman T, DeCiccio D, Rose-Petruck C, Lash E, Dunsiger S, and Becker B. Comparing the Accuracy of Micro-Focus X-ray to Standard Ultrasound for Identifying Small Fractures. Poster session presented at: New England SAEM Regional Meeting, Worcester, MA. March 2019.
2. **Wu S**, Parkman T, DeCiccio D, Rose-Petruck C, Anderson A, Dunsiger S, and Becker B. Comparing the Accuracy of Micro-Focus X-ray to Standard Ultrasound for Locating Glass Foreign Bodies. Poster session presented at: New England SAEM Regional Meeting, Worcester, MA. March 2019.
3. **Wu S**, Parkman T, DeCiccio D, Rose-Petruck C, Dunsiger S, Anderson A, Lash E, Fletcher J, Galvin W, and Becker B. Comparing the Accuracy of Microfocus X-Ray to Standard Ultrasound for Locating Glass Foreign Bodies. Lightning Oral presentation at: SAEM Annual Meeting, Denver, Colorado. May 2020.

INVITED PRESENTATIONS

LOCAL/REGIONAL

1. Michigan College of Emergency Physician, Pathological Case Presentation—Takotsubo Cardiomyopathy, Traverse City, Michigan. July 2011.
2. New England Emergency and Critical Care Ultrasound Course, Yale University, Rhode Island. Hands-on Instructor. September 2012.
3. 2013 Tri-state Area Inaugural Course for Emergency Ultrasound Fellows, Lenox Hill Hospital, New York, NY. July 2013.
4. New England Emergency and Critical Care Ultrasound Course, Yale University, Rhode Island. Hands-on Instructor. September 2014.
5. New England Emergency and Critical Care Ultrasound Course, Yale University, Rhode Island. Hands-on Instructor. September 2016.
6. New England Emergency and Critical Care Ultrasound Course, Yale University, Rhode Island. Hands-on Instructor. September 2017.
7. New England Emergency and Critical Care Ultrasound Course, Yale University, Rhode Island. Hands-on Instructor. September 2018.
8. Introduction to Ultrasound: Physics and Knobology, Wilderness, Disasters, and Global Health: Emergency Medicine in Limited Resource Environments, Frank H. Netter MD School of Medicine at Quinnipiac University, November 15, 2018. Visiting lecturer.
9. Introduction to Ultrasound: Physics and Knobology, Wilderness, Disasters, and Global Health: Emergency Medicine in Limited Resource Environments, Frank

- H. Netter MD School of Medicine at Quinnipiac University, November 14, 2019. Visiting lecturer.
10. Introduction to Ultrasound: Physics and Knobology, Wilderness, Disasters, and Global Health: Emergency Medicine in Limited Resource Environments, Frank H. Netter MD School of Medicine at Quinnipiac University, November 19, 2020. Visiting lecturer.
 11. Introduction to Ultrasound: Physics and Knobology, Wilderness, Disasters, and Global Health: Emergency Medicine in Limited Resource Environments, Frank H. Netter MD School of Medicine at Quinnipiac University, November 11, 2021. Visiting lecturer.
 12. Introduction to Ultrasound: Physics and Knobology, Wilderness, Disasters, and Global Health: Emergency Medicine in Limited Resource Environments, Frank H. Netter MD School of Medicine at Quinnipiac University, April 7, 2022. Visiting lecturer.
 13. Introduction to Ultrasound Guided Regional Anesthesia Workshop, UMass Memorial Health. Alpert Medical School Brown University, Providence, RI. Hands-on instructor. March 2023.
 14. New England Emergency and Critical Care Ultrasound Course, Yale University, Rhode Island. Hands-on Instructor. September 2023.
 15. Rhode Island SoundWave Symposium, Alpert Medical School Brown University, Providence, RI. Hands-on instructor, course manual contributor. September 2023.
 - A one-day, free ultrasound training and technology symposium for medical students and advanced practice providers.
 - Over 70 participants rotated through six hands-on stations.

NATIONAL

1. Society for Academic Emergency Medicine, National Emergency Medicine Clinical Pathological Case Presentation-Left Ventricular Myxoma. Boston, Massachusetts. June 2011.
2. Yale Emergency and Critical Care Ultrasound Course in the Caribbean, Yale University, San Juan, Puerto Rico. Hands-on instructor. March 2013.
3. Sonoslam, American Institute of Ultrasound in Medicine (AIUM) Annual Conference. New York, New York. Proctor. March 2016.
4. Sonoslam, American Institute of Ultrasound in Medicine (AIUM) Annual Conference. Orlando, FL. March 2017.
 - Created hands-on station for round 2 of competition
 - Proctor round 1
5. Yale Point of Care Ultrasound Course, Yale University, Fort Lauderdale, Florida. Hands-on Instructor. March 2019.
6. Sonoslam, American Institute of Ultrasound in Medicine (AIUM) Annual Conference. New York, NY. March 2018.
 - Created hands-on station for round 2 of competition

- Proctor round 1
- 7. Sonogames. Society for Academic Emergency Medicine Annual Conference. Indianapolis, IN. Station judge. May 2018.
- 8. Sonoslam, American Institute of Ultrasound in Medicine (AIUM) Annual Conference. Orlando, FL. April 2019.
 - Created hands-on station for round 2 of competition
 - Proctor round 1
- 9. Sonogames. Society for Academic Emergency Medicine Annual Conference;. Las Vegas, NV. May 2019.
 - Created hands-on game for station 2 of competition

INTERNATIONAL

1. Ultrasonido de Emergencia en la Costa de México (Emergency Ultrasound on the Coast of Mexico), Puerto Escondido, Mexico. Hands-on instructor. June 2014.
2. Ultrasound Course, Hospital Nacional Guillermo Almenara Irigoyen, Emergency Medicine Department, Lima, Peru. Lecturer, hands-on instructor. March 2015.
3. Ultrasound Course, Nairobi Hospital, Nairobi, Kenya. Lecturer, hands-on instructor. January 2016.
4. Curso Internacional de Ecografia de Emergencia y Cuidados Críticos (Ultrasound Course), Clinica Delgado, Emergency Medicine Department, Lima, Peru. July 2016.
 - Sponsored by Health Bridges International and Clinica Delgado, thirty doctors from all over Peru were taught the basics of emergency ultrasound in a two-day course given by Dr. Shirley Wu and Dr. Sheeja Thomas. Course included both lectures and hands-on training.
5. Ultrasound Course, Emergency Medicine Kenya Foundation, Nairobi, Kenya. Lecturer, hands-on instructor. April 2018.
6. Point of Care Lung Ultrasound, Brown Emergency Medicine, Providence, RI. May 2023.
 - Lectured Introduction to Ultrasound, Physics, and Knobology to 10 pediatrician in Nepal

UNIVERSITY TEACHING, ADVISING and MENTORING ROLES

University of Connecticut School of Medicine: Medical Student Course

2012 - 2016

Principles of Clinical Medicine

- Class size approximately 90 students
- Coordinated with ultrasound companies to obtain and transport machines for hands-on sessions
- Lectured and taught all hands-on sessions

University of Connecticut School of Medicine: Resident/Fellow Course

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| 2012 - 2016 | <p>University of Connecticut School of Medicine Emergency Medicine, Ultrasound Intern Rotation</p> <ul style="list-style-type: none"> • Class size approximately 17 interns a year • Interns have a required one-month ultrasound rotation with the Emergency Ultrasound Division • Weekly scanning in the department • Weekly didactic, journal club and image review |
| 2012 - 2016 | <p>University of Connecticut School of Medicine Emergency Medicine, Ultrasound Resident Elective</p> <ul style="list-style-type: none"> • approximately 1-2 residents a month • Senior residents spend 2 to 4 weeks elective time to focus on advanced ultrasound • Weekly scanning in the department • Weekly didactic, journal club and image review |
| 2013 - 2016 | <p>University of Connecticut School of Medicine Pediatric Emergency Medicine Fellowship, Fellow Rotation</p> <ul style="list-style-type: none"> • Class size approximately 2-3 a year • PEM fellows required one-month ultrasound rotation with the Emergency Ultrasound Division • Weekly scanning in the department • Weekly didactic, journal club and image review |
| 2012 - 2016 | <p>Point of Care Ultrasound Hands-On Training Sessions</p> <ul style="list-style-type: none"> • Lead weekly hands-on training scan sessions in the Emergency Department • Weekly scanning in the department, approximately 6 hours a week • Medical students, interns, residents, fellows, and PEM fellows in attendance |

Warren Alpert Medical School of Brown University: Medical Student Courses

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| 2016 - 2019 | <p>EM Point of Care Ultrasound (EM-5640)</p> <ul style="list-style-type: none"> • Course director 2016 - 2019 • Approximately 10-15 Brown Medical Students enroll per academic year |
| 2016 - current | <p>Warren Alpert Medical School of Brown University Ultrasound Instructor for 1st and 2nd Year Students</p> <ul style="list-style-type: none"> • Teach students hands-on ultrasound skills in preclinical years as part of their curriculum • Approximately 8-10 medical students per session |

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

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| 2016 - current | <p>Brown Emergency Medicine Intern Rotation: Point of Care Ultrasound</p> <ul style="list-style-type: none"> • 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 |
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| 2016 - current | <p>Point of Care Ultrasound Hands-On Training Sessions</p> <ul style="list-style-type: none"> • Lead hands-on training scan sessions in the Emergency Department • Scanning sessions in the department • Medical students, interns, residents, fellows, and PEM fellows in attendance • Regular QA of scans performed in the department |
| 2017 - current | <p>EM Point of Care Ultrasound BAEMA Non-Clinical Fellowship Warren Alpert Medical School of Brown University</p> <ul style="list-style-type: none"> • Approximately 2 fellows a year • Hands-on training sessions and bedside teaching during clinical shifts in the emergency department |

CURRICULUM DEVELOPMENT

1. Principles of Clinical Medicine, University of Connecticut School of Medicine, Farmington, Connecticut. Class size approximately 90 students. 2012-2016.
 - As part of Principles of Clinical Medicine, developed the first ultrasound course for all first year medical students
 - Coordinated with ultrasound companies to obtain and transport machines for hands-on sessions
 - Lectured and taught all hands-on sessions
2. Alpert Medical School Brown University, Providence, RI. 2016-2019
 - Worked with medical school deans to develop first ultrasound curriculum for first and second year medical students
 - Students participated in several hands-on scanning sessions a years
 - Quizzes required as part of curriculum
 - Taught hands-on session for first and second year medical students
3. Medical Student Emergency Medicine Ultrasound Rotation Curriculum, Alpert Medical School Brown University, Providence, RI. 2016-2019.
 - EM 5640 hosts between 10-15 medical students annually
 - Students participate in daily hands-on scan sessions and participate in weekly didactics, journal club and image review conference
 - Specific journal readings, on-line lectures and quizzes required as part of rotation
4. Intern POCUS Curriculum, Brown Emergency Medicine. Providence, RI. 2018-2019.
 - All Brown Emergency medicine interns (14), spend one month on the emergency ultrasound rotation
 - Interns perform a minimum of 150 diagnostic ultrasounds during the month
 - Interns participate in daily hands-on scan sessions and participate in weekly didactic, journal club and image review conferences

UNIVERSITY TEACHING

1. Beaumont Health System Emergency Medicine Program, Grand Rounds-Cardiovascular Trauma. November 2010.
2. Beaumont Health System, Emergency Medicine Program, Grand Rounds-Prompt Care Potpourri. September 2011.

3. University of Connecticut School of Medicine, Principles of Clinical Medicine, Farmington, Connecticut. Class size approximately 90 students.
 - Thyroid, liver, spleen, and aorta. January 2013 to March 2013.
 - Thyroid, cardiac, and aorta. January 2014 to March 2014.
 - Thyroid, cardiac, and aorta. January 2015 to March 2015.
 - Thyroid, cardiac, and aorta. January 2016 to March 2016.

4. University of Connecticut Lecture Series in Emergency Medicine, Pass-the-Pointer Ultrasound Series. Class size approximately 40-50 residents and attending physicians.
 - Weekly July 2012 to June 2013.
 - Biweekly July 2013 to June 2014.
 - Monthly July 2014 to July 2016.

5. University of Connecticut Core Lecture Series in Emergency Medicine, Year-directed Lecture Series. Class size 12-18 residents.
 - PGY1 Extended Focused Assessment with Sonography for Trauma. July 2012.
 - PGY1 Renal Ultrasound. July 2012.
 - PGY1 Ultrasound-guided Central Lines. November 2012.
 - PGY2 Ocular and Deep Vein Thrombosis Ultrasound. November 2012.
 - PGY2 Ultrasound-guided Procedures. February 2013.
 - PGY1 Ob/gyn. March 2013.
 - PGY3 Advanced Knobology. August 2013.
 - PGY1 Ob/gyn. October 2013.
 - PGY2 Ultrasound-guided Procedures. November 2013.
 - PGY1 Central Line Placement. November 2013.
 - PGY1 Soft Tissue and Musculoskeletal, December 2013.
 - PGY2 Ultrasound Exam: Lumbar Puncture, Peripheral IV, Pelvic. February 2014.
 - PGY1 Ultrasound Exam: EFAST. March 2014.
 - PGY3 Ultrasound Exam: Lumbar Puncture, Thoracentesis, and FAST. April 2014.
 - PGY1 Soft Tissue, Musculoskeletal, and Nerve Ultrasound. October 2014.
 - PGY3 Advanced Cardiac. December 2014.
 - PGY2 Ultrasound-guided Procedures. December 2014.
 - PGY3 Testicular, Peritonsillar Abscess, and Pneumoperitoneum Ultrasound. January 2015.
 - PGY1 Transvaginal Ultrasound. February 2015.
 - PGY2 HEENT Ultrasound. February 2015.
 - PGY2 Ultrasound Exam: Transvaginal, Biliary, and Peripheral IV. April 2015.
 - PGY1 Ultrasound Exam: EFAST. May 2015.
 - PGY3 Ultrasound Exam: Cardiac, EFAST, Biliary. May 2015.
 - PGY1 Soft Tissue, Musculoskeletal, and Nerve Ultrasound. September 2015.
 - PGY2 Ultrasound-guided Procedures. September 2015.
 - PGY1 Transvaginal Ultrasound. October 2015.
 - PGY3 Advanced Cardiac. December 2015.
 - PGY2 HEENT Ultrasound. December 2015.

6. University of Connecticut Emergency Medicine, Intern Ultrasound Orientation, Hartford Hospital, Hartford, CT.
 - Class size approximately 30 participants and included interns, EM physician assistants, EM attending physicians, and non-EM residents
 - Organized and ran a two day course for all incoming emergency medicine interns
 - Ran dual classroom of simultaneous lecture and hands-on practice

- Coordinated with companies for loaner machines
 - Coordinated with volunteers for hands-on sessions.
 - o Hands-on Instructor, lecturer. July 2012.
 - o Organizer, lecturer. July 2013.
 - o Organizer, lecturer. July 2014.
 - o Organizer, lecturer. July 2015.
 - o Organizer, lecturer. July 2016.
7. Brown University Emergency Medicine Residency, Ultrasound lectures. Providence, RI. Lectures as part of weekly resident didactic day.
- Soft tissue/MSK/potpourri. November 2016.
 - Pass-the-pointer. May 2017.
 - Pass-the-pointer. August 2017.
 - Pass-the-pointer. August 2018.
 - RUSH Exam. September 2018.
 - Pass-the-pointer. December 2018.
 - Pass-the-pointer. February 2019.
 - SIM, ultrasound. February 2019.
8. Brown University Emergency Medicine Residency, Intern Ultrasound Bootcamp. Providence, RI.
- Class size approximately 14 interns
 - Organized and ran a one day course for all incoming Brown Emergency Medicine Resident interns
 - Coordinated with companies for loaner machines
 - Coordinated with volunteers for hands-on sessions
 - o Organizer, lecturer, hands-on Instructor. June 2017.
 - o Organizer, lecturer, hands-on Instructor. July 2018.
 - o Lecturer, hands-on Instructor. June 2021.
 - o Lecturer, hands-on Instructor. June 2022.
 - o Lecturer, hands-on Instructor. June 2023.
9. Pediatric Emergency Medicine and Critical Care Ultrasound Workshop, Alpert Medical School Brown University, Hasbro Hospital. Providence, RI.
- Hands-on instructor. September 2016.
 - Lecturer, hands-on instructor. October 2017.
 - Lecturer, hands-on instructor. October 2018.
 - Lecturer, hands-on instructor. November 2019.
 - Hands-on instructor. September 2023.
10. Alpert Medical School Brown University, Providence, RI.
- Hands-on instructor for MSI and MSII students in their ultrasound course. Each session with approximately 8-10 students. Each class has 4-5 sessions a year. September 2016 - current.
- Liver, kidney, spleen—MSI, September 2016.
 - MSK—MSI, March 2017.
 - Intro to U/S, cardiac, pulmonary—MSI, August 2017.
 - Cardiac—MSII, August 2017
 - Intro to U/S, cardiac, pulmonary—MSI, September 2017.
 - Abdomen/gallbladder—MSII, September 2017.
 - MSK—MSI, March 2018.
 - Renal—MSI, October 2021.
 - Cardiac—MSII, November 2021.
 - Abdomen/gallbladder—MSII, January 2022.

- Intro to U/S—MSI, September 2022.
 - Clinical diagnosis, November 2022.
11. Clinical Skills Clerkship— Alpert Medical School Brown University, Providence, RI. Hands-on instructor for MSI and MSII students as part of an all-day procedure course to prepare students for their clinical rotations.
 - FAST exam—MSII, April 2017.
 - RUSH exam—MSII, April 2018.
 - FAST exam—MSII, April 2018.
 - RUSH exam—MSII, April 2019.
 12. Intern Prep Course— Alpert Medical School Brown University, Providence, RI. Hands-on instructor for MSIV students as part of an all-day procedure day geared to preparing students for emergency medicine residency.
 - FAST exam—January 2019.
 - FAST exam—January 2022.
 13. Brown University, Emergency Medical Systems: An Anatomy of Critical Performance (CRN: 26273). Providence, RI. 2017 - present.
 - As part of the class, undergraduate students shadow in the Emergency Department to obtain exposure to medicine
 - Emphasize placed on the practice of providing care to patients at the most critical and dire moments of their lives. Topics include but not limited to: trauma, medical malpractice, death and dying, disaster medicine, interpersonal violence, and medical ethics.
 14. Emergency Medicine Interest Group, Alpert Medical School Brown University, Providence, RI.
 - Ultrasound-guided peripheral IVs. Hands-on instructor. October 2018.

HOSPITAL TEACHING ROLES

1. Hartford Hospital Emergency Medicine Ultrasound Course, Hartford Hospital, Hartford, CT. October 2013.
 - Organized a two-day lecture for emergency medicine attendings and advanced practitioners
 - Approximately 28 participants
 - Ran dual classroom of simultaneous lecture and hands-on practice
 - Coordinated with companies for loaner machines
 - Coordinated with volunteers for hands-on sessions
2. Advanced Practitioner Ultrasound Education Curriculum, Hartford Hospital Emergency Department, Hartford, Connecticut.
 - February 2013
 - April 2013
 - September 2013
3. LIFE STAR Air Medical Transportation, Hartford Hospital, Hartford, CT.
 - Ultrasound-guided Peripheral IV Placement. January 2014.
 - Pneumothorax. February 2014.
4. Attending Know-and-Grow, University Emergency Medicine Foundation. Providence, RI. January 2017.

- Organized a one-day lecture for emergency medicine attendings and advanced practitioners
 - Approximately 25 participants
 - Coordinated with companies for loaner machines
 - Coordinated with volunteers for hands-on sessions
5. Ultrasound-guided peripheral IV placement, Emergency nurses at The Miriam Hospital, Providence, RI. May 2017.
 6. Attending Know-and-Grow, Brown EM. Lecturer and hands-on instructor for a one day ultrasound course for BEM attendings, Providence, RI. January 2022.
 7. Advanced Practitioner Ultrasound Education, Brown Emergency Medicine, Providence, RI. Lecture and hands-on teaching on Introduction of Ultrasound to new APPs. November 2022.

MENTORING ROLES

MEDICAL STUDENTS

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|-------------|---|
| 2015 - 2016 | Chris Berry (UConn School of Medicine '16)
Bryan Stenson (UConn School of Medicine '16)
Adam Kaye (UConn School of Medicine '16)
Mary Cearly (UConn School of Medicine '16)
Michael Joseph (UConn School of Medicine '17) <ul style="list-style-type: none"> • Provided ultrasound lectures and hands-on teaching in preparation for a national medical student ultrasound competition at AIUM SonoSlam • Made interactive games both hands-on and lecture format to aid in teaching skills |
| 2019 - 2020 | Kamit Bahil (Brown '22) <ul style="list-style-type: none"> • Doctoring Community Mentor Program • Weekly to biweekly clinical sessions focused on, practicing medical interview with patients, performing components of a focused physical exam, giving an oral presentation, and writing a history and physical • Integrated the use of point-of-care ultrasound into clinical practice |
| 2023 - 2024 | Jacob Glueck (Brown '26) <ul style="list-style-type: none"> • Doctoring Community Mentor Program • Weekly clinical sessions focused on, practicing medical interview with patients, performing components of a focused physical exam, giving an oral presentation, and writing a history and physical • Integrated the use of point-of-care ultrasound into clinical practice |

RESIDENTS

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| 2013 - 2014 | Peter Keenan, MD
John Paul Craford, MD
Tia Little, MD
Erika St. James, MD |
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	<ul style="list-style-type: none"> • Provided lectures and hands-on teaching in preparation for a national emergency medicine resident ultrasound competition at SAEM SonoGames <ul style="list-style-type: none"> • Won 1st place • Made interactive games both hands-on and lecture format to aid in teaching skills • Aid in costume ideas, design, and team name
2014 - 2015	<p>Erika St. James, MD John Paul Craford, MD Christian Zoeller, MD</p> <ul style="list-style-type: none"> • Provided lectures and hands-on teaching in preparation for a national emergency medicine resident ultrasound competition at SAEM SonoGames • Made interactive games both hands-on and lecture format to aid in teaching skills • Aid in costume ideas, design, and team name.
2015 - 2016	<p>Christian Zoeller, MD Eugene Cho, MD Hanan Atia, MD</p> <ul style="list-style-type: none"> • Provided lectures and hands-on teaching in preparation for a national emergency medicine resident ultrasound competition at SAEM SonoGames <ul style="list-style-type: none"> • Won best team costume • Made interactive games both hands-on and lecture format to aid in teaching skills. • Aid in costume ideas and team name.
2016 - 2017	<p>Jordan Cohen, MD Chana Rich, MD Jonathan Thorndike, MD</p> <ul style="list-style-type: none"> • Provided lectures and hands-on teaching in preparation for a national emergency medicine resident ultrasound competition at SAEM SonoGames • Made interactive games both hands-on and lecture format to aid in teaching skills
2017 - 2018	<p>Tim Boardman, MD Alisa Anderson, MD William Galvin, MD</p> <ul style="list-style-type: none"> • Provided lectures and hands-on teaching in preparation for a national emergency medicine resident ultrasound competition at SAEM SonoGames <ul style="list-style-type: none"> • Faculty team captain • Made interactive games both hands-on and lecture format to aid in teaching skills
2018 - 2019	<p>Joshua Kaine, MD Andrew Beck, MD Erica Lash, MD</p> <ul style="list-style-type: none"> • Provided lectures and hands-on teaching in preparation for a national emergency medicine resident ultrasound competition at SAEM SonoGames

- Faculty team captain
- Made interactive games both hands-on and lecture format to aid in teaching skills

EMERGENCY MEDICINE FELLOWS

Brown Emergency Medicine, Ultrasound Fellowship. Alpert Medical School Brown University, Providence, RI.

- Provided regular bedside teaching during clinical shifts
- Gave focused advanced ultrasound lectures

2018 -2020	Nehal AlSadhan, MD <ul style="list-style-type: none"> • Non-clinical fellow
2019 - 2020	Zack Binder, MD Ali AlRassi, MD <ul style="list-style-type: none"> • Non-clinical fellow
2020 - 2021	Burton Shen, MD Mazen Alateeq, MD <ul style="list-style-type: none"> • Non-clinical fellow
2021 - 2022	Nicole Leonard, MD Abdullah Alfahhad, MD <ul style="list-style-type: none"> • Non-clinical fellow Lubna Alshibani, MD <ul style="list-style-type: none"> • Non-clinical fellow
2023 - 2024	Susannah Boulet, DO Ali Al-Hojelan, MD <ul style="list-style-type: none"> • Non-clinical fellow