



## Timothy J Batchelor

Clinical Assistant Professor, Emergency Medicine

### CLINICAL OFFICE (PRIMARY)

- **Stanford Dept of Emergency Medicine**

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### Bio

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#### BIO

Dr. Timothy Batchelor is a Clinical Assistant Professor in the Department of Emergency Medicine at Stanford University, dual fellowship trained in Advanced Emergency Ultrasound and Global Emergency Medicine. Dr. Batchelor completed emergency medicine residency at Lehigh Valley Health Network in Allentown, Pennsylvania, and medical school at Morsani College of Medicine in Tampa, Florida, as a member of the SELECT curriculum. He also has an MBA from University of Massachusetts' Isenberg School of Management, and is working with private industry to bring imaging technology to health systems equitably. Prior to clinical medicine Dr. Batchelor was a fire service lieutenant, prehospital EMS provider, and accredited EMS and firefighter instructor.

He has ongoing international research in Rwanda looking at the impacts of emergency medicine resident Point-of-Care Ultrasound training, in Costa Rica evaluating ultrasound utilization in austere healthcare settings using geospatial analysis, in Kenya implementing a novel AI-enabled trauma education program for prehospital providers, and in Sri Lanka investigating road traffic accident injuries and how emergency care resources can be leveraged to optimize outcomes.

Domestically Dr. Batchelor is involved in cardiac arrest transesophageal echocardiography research, and how electromagnetic hand motion analysis can augment procedural Point-of-Care Ultrasound training. As founder and content creator of CardinalPOCUS.com, he works to make emergency Point-of-Care Ultrasound training accessible to all.

#### CLINICAL FOCUS

- Emergency Medicine
- Emergency Ultrasonography
- Global Health
- Medical Education
- Prehospital Emergency Care

## **ACADEMIC APPOINTMENTS**

- Clinical Assistant Professor, Emergency Medicine

## **HONORS AND AWARDS**

- Save of the Month, Stanford University - Department of Emergency Medicine (7/2025)
- National Fellow Educator of the Year, Academy of Emergency Ultrasound - Society for Academic Emergency Medicine (5/2025)
- Save of the Month, Stanford University - Department of Emergency Medicine (5/2025)
- EMRA 50th Celebration Museum - Best in Poetry & Prose, 1st Place, Emergency Medicine Resident's Association (10/2024)
- Chair's Plaudit, Stanford University - Department of Emergency Medicine (9/2024)
- Fellowship Spotlight, Young Physicians Section - American Academy of Emergency Medicine (9/2024)
- Outstanding Educator of the Month Award, Stanford University - Department of Emergency Medicine (11/2023)
- First Resuscitative TEE in the ED Award, Stanford University - Department of Emergency Medicine – Ultrasound Section (7/2023)
- Outstanding Educator of the Month Award, Stanford University - Department of Emergency Medicine (5/2023)
- Black Cloud Award, Lehigh Valley Health Network: EM Residency Class of 2022 (5/2022)
- Wilderness MedWars Competition Winner – 1st Place, Lehigh Valley Health Network (5/2022)
- Wilderness Day Competition Winner – 1st Place, Lehigh Valley Health Network (5/2021)
- New Innovations in Emergency Medicine Competition Winner – 3rd Place, American College of Osteopathic Emergency Physicians (3/2020)
- Virtual Wilderness & Austere Medicine Competition Winner – 1st Place, Lehigh Valley Health Network (2020)
- Medical Student Quality Award, Lehigh Valley Physician Hospital Organization & Lehigh Valley Health Network (2017-2018)
- Excellence in Leadership Award, Washington State University (2012)
- Eagle Scout Award, Boy Scouts of America (1998)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Inaugural Member, SAEM: GEMA POCUS Subcommittee (2024 - present)
- President, USF Morsani College of Medicine: EMIG (2015 - 2016)
- Treasurer, USF Morsani College of Medicine: EMIG (2017 - 2018)
- Member, Lehigh County Medical Society (2018 - 2022)
- Member, Pennsylvania College of Emergency Physicians (2018 - 2022)
- Member, American College of Emergency Physicians (2018 - present)
- Member, Emergency Medicine Resident's Association (2018 - present)
- Member, American College of Osteopathic Emergency Physicians (2020 - 2022)
- Member, ACEP: Emergency Ultrasound Section (2022 - present)
- Member, Society for Academic Emergency Medicine (2022 - present)
- Member, SAEM: Academy of Emergency Ultrasound (2022 - present)
- Member, American Academy of Emergency Medicine (2023 - present)
- Member, Society of Clinical Ultrasound Fellowships (2023 - present)
- Member, SAEM: Global Emergency Medicine Academy (2023 - present)
- Global Health Postdoctoral Affiliate, Center for Innovation in Global Health (CIGH) (2025 - present)

## **PROFESSIONAL EDUCATION**

- Fellowship: Stanford University Emergency Medical Services Fellowship (2025) CA

- Fellowship: Stanford Health Care Emergency Ultrasound Fellowship (2024) CA
- MBA, University of Massachusetts - Isenberg School of Management , Business (2025)
- Fellowship, Stanford University , Global Emergency Medicine (2025)
- Fellowship, Stanford University , Advanced Emergency Ultrasound (2024)
- Board Certification: Emergency Medicine, American Board of Emergency Medicine (2023)
- Residency: Lehigh Valley Hospital and Health Network (2022) PA
- Medical Education: University of South Florida Morsani College of Medicine (2018) FL

## COMMUNITY AND INTERNATIONAL WORK

- The Serious Public Health Issues Resulting from Formaldehyde Exposures Within FEMA Travel Trailers Issued to Hurricane Disaster Victims...
- Prevalence of Homelessness in the Emergency Department Setting
- Physician Directed Smoking Cessation in the Emergency Department
- Hybrid Educational and Quality Assurance Point-of-Care Ultrasound Training Program in Rwanda
- Geospatial Analysis of the Successful Improvement in the Utilization of Point-of-Care Ultrasound (POCUS) in Austere Health Care Settings
- EMS Trauma Training Program in Nairobi, Kenya
- Characterizing road traffic injuries and their associated healthcare and financial burdens, Sri Lanka
- LEAPS: Leveraging emergency ambulance potential in Sri Lanka

## LINKS

- TimothyJBatchelor.com: <http://TimothyJBatchelor.com>
- CardinalPOCUS.com: <http://CardinalPOCUS.com>

## Research & Scholarship

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### PROJECTS

- Newly Diagnosed Middle Lobe and Lingular Bronchiectasis and Mycobacteria Infection - Moffitt Cancer Center (2014 - 2015)
- Clinical Pathway for the Outpatient Treatment of Pulmonary Embolism - Lehigh Valley Health Network (2016 - 2017)
- MedEvac Transport Ultrasound Training - George E. Moerkirk Emergency Medicine Institute (2021 - 2022)
- Realtime RTLS Ultrasound Machine Tracking in the ED - Stanford University Department of Emergency Medicine (2022 - present)
- Ultrasound Equipment Management System in the ED Utilizing QR Codes and Electronic Submission - Stanford University Department of Emergency Medicine (2023 - present)
- QA Interrater Reliability Study/Standardization - Stanford Emergency Medicine Ultrasound Section (2023 - present)
- Ultrasound Case Report Mentorship Program: Facilitating Peer-Reviewed Publications for First-Year Residents - Stanford University Emergency Medicine Residency (2023 - present)
- Transesophageal Echocardiography (TEE) Mastery Learning - Stanford Emergency Medicine Ultrasound Section (2023 - present)
- Integrating Hand Motion Analysis into Competency Based Point-of-Care Ultrasound Education - Stanford Emergency Medicine (6/1/2024 - present)
- Leveraging Bi-Plane Technology to Improve Ultrasound Guided Peripheral Vascular Access Time-to-Cannulation in ED Nurses - Stanford Department of Emergency Medicine (6/1/2024 - present)

## Publications

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### PUBLICATIONS

- **PURA-ECHO: Analysis of the evolution of Ultrasound utilization in austere health care settings in Costa Rica's Geographic Empanelment Model.** *BMC emergency medicine*  
Abarca, S. E., Aguilar, M., Padilla, N., Batchelor, T., Anderson, K. L., Ashenburg, N.

2026

- **Man With Blurry Vision.** *Annals of emergency medicine*  
Fuentes, G., Patel, B., Batchelor, T. J.  
2026; 87 (1): 108-109
- **Resuscitative transesophageal echocardiography identifies aortic dissection in undifferentiated cardiac arrest** *Visual Journal of Emergency Medicine*  
Batchelor, T. J., Wagner, T. D., Wiesendanger, K., Rose, C.  
2026; 43
- **Using emergency medicine point-of-care ultrasound to investigate renal colic presenting as testicular pain** *Visual Journal of Emergency Medicine*  
Brunson, D., Gallegos, M., Batchelor, T. J.  
2026; 43
- **Radial artery pseudoaneurysm following cardiac catheterization using point of care ultrasound** *Visual Journal of Emergency Medicine*  
Dwight, A. R., Batchelor, T. J.  
2026; 43
- **Eustachian valve thrombus in a patient with submassive pulmonary embolism** *Visual Journal of Emergency Medicine*  
Klein, E. M., Wu, S., Batchelor, T. J.  
2026; 43
- **Advancing Point-of-Care Ultrasound Education in Rwanda: Lessons Learned, Challenges, and the Path Forward**  
Batchelor, T. J., Lanter, P., Obeng, E., Nsengiyumva, E., Wilson, G., Shenge, S., Mugemangango, P., Uwamahoro, D., Feltes, M.  
EUS-AAEM The POCUS Report. <https://www.aaem.org/get-involved/sections/eus/resources/pocus-report/winter-2026-volume-9-issue-1/#advancing>.  
2026
- **Pleural effusion causing cardiac tamponade on point-of-care ultrasound** *Visual Journal of Emergency Medicine*  
Wu, S. A., Klein, E. M.  
2026; 42
- **The role of point-of-care ultrasound in detecting an occult pediatric elbow fracture missed on plain film: A case report.** *Radiology case reports*  
Rogers-Shepp, I., Parambath, A., Batchelor, T. J.  
2025; 20 (10): 5239-5242
- **Man With Leg Mass, Fever, and Numbness.** *Journal of the American College of Emergency Physicians open*  
Perry, R., Mehring, W., Johnson, B., Batchelor, T., Hill, C., Lobo, V.  
2025; 6 (5): 100223
- **Woman With Leg Pain.** *Annals of emergency medicine*  
Muzaurieta, A. A., Ashenburg, N. G., Hill, C., Batchelor, T. J.  
2025; 86 (1): 99-100
- **A Woman With Swelling and Crepitus.** *Journal of the American College of Emergency Physicians open*  
Wagner, T. D., Batchelor, T. J.  
2025; 6 (3): 100138
- **Man With Eye Pain and Lateral Gaze Palsy.** *Annals of emergency medicine*  
Johnson, B. A., Batchelor, T. J., Berenson, M. G.  
2025; 85 (4): 370-371
- **A Man With Chest and Neck Swelling.** *Journal of the American College of Emergency Physicians open*  
Das, I. G., Ashenburg, N. G., Rebagliati, D., Batchelor, T. J.  
2025; 6 (2): 100070
- **Man With Acute Abdominal Pain.** *Annals of emergency medicine*  
Liao, C. Y., Allen, C. W., Hill, C., Obeng, E. A., Rebagliati, D., Batchelor, T. J.  
2025; 85 (3): 276-277

- **A Woman With Facial Swelling and Pharyngeal Bleeding.** *Journal of the American College of Emergency Physicians open*  
Batchelor, T. J., Urdaneta, A., Brown, I. P.  
2025; 6 (1): 100008
- **Suprasternal notch POCUS for detection of aortic dissection** *Visual Journal of Emergency Medicine*  
Patel, B., Fuentes, G., Batchelor, T. J.  
2025; 39
- **Avoiding the knife: Ultrasound assessment of scrotal swelling in a high-risk geriatric patient** *Visual Journal of Emergency Medicine*  
Fernandes, C., Batchelor, T. J.  
2025; 39
- **Splenic laceration on POCUS in woman with abdominal pain secondary to fall** *Visual Journal of Emergency Medicine*  
Rebagliati, D., Das, I. G., Ashenburg, N. G., Batchelor, T. J.  
2025; 39
- **Apical atelectasis: A mimic for pneumothorax on point-of-care ultrasound** *Visual Journal of Emergency Medicine*  
Rea, S., Batchelor, T. J.  
2025; 39
- **Employing point-of-care ultrasound in the evaluation of traumatic lens dislocation** *Visual Journal of Emergency Medicine*  
Silva, E., Smith, Z., Batchelor, T. J.  
2025; 38
- **A Left Clavicular Mass: Ultrasound Insights into a Complex Case** *Visual Journal of Emergency Medicine*  
Parambath, A., Rogers-Shepp, I., Batchelor, T. J.  
2025; 38
- **A woman with sudden unilateral vision loss.** *Journal of the American College of Emergency Physicians open*  
Abid, A., Lin, M. P., Cox, E., Batchelor, T. J.  
2024; 5 (6): e13337
- **Man with scrotal pain and swelling.** *Journal of the American College of Emergency Physicians open*  
Allen, C. W., Liao, C., Hill, C., Batchelor, T. J., Ashenburg, N. G.  
2024; 5 (5): e13289
- **Point-of-care Ultrasound Diagnosed Intraocular Breast Metastasis.** *Clinical practice and cases in emergency medicine*  
Yusuf, H. M., Batchelor, T., Ashenburg, N.  
2024; 8 (3): 298-299
- **A woman with a headache and vision changes.** *Journal of the American College of Emergency Physicians open*  
Batchelor, T. J., Anderson, K. L.  
2024; 5 (1): e13109
- **Eight weeks pregnant woman with heavy vaginal bleeding.** *Journal of the American College of Emergency Physicians open*  
Moody, G. G., Batchelor, T. J., Ashenburg, N.  
2024; 5 (1): e13113
- **Complete molar pregnancy found on point-of-care ultrasound in a woman presenting for dyspnea and fatigue** *Visual Journal of Emergency Medicine*  
Wagner, T. D., Ashenburg, N. G., Batchelor, T. J.  
2024; 35
- **Establishing a Hybrid Point of Care Ultrasound Program at the University Teaching Hospital of Kigali**  
Lanter, P., Nsengiyumva, E., Obeng, E., Batchelor, T., Wilson, G., Faustin, T., Claudien, N., Ashenburg, N., Lindquist, B., Hahn, I., Mugemangango, P., Uwamahoro, D., Feltes, et al  
ACEP Emergency Ultrasound Section Newsroom. <https://www.acep.org/emultrasound/newsroom/oct2024/establishing-a-hybrid-point-of-care-ultrasound-program>.  
2024

- **Acute-on-chronic left eye pain in the setting of neurotrophic keratopathy** *Visual Journal of Emergency Medicine*  
Yousef, S., Batchelor, T. J.  
2024; 36
- **Employing point-of-care ultrasound for evaluation of an ovarian lesion** *Visual Journal of Emergency Medicine*  
Espiritu, J., Duanmu, Y., Batchelor, T. J.  
2024; 37
- **Evaluating for small bowel obstruction in the emergency department using point-of-care ultrasound** *Visual Journal of Emergency Medicine*  
Osigwe, C. C., Duanmu, Y., Batchelor, T. J.  
2024; 36
- **Point-of-care ultrasound identification of Achilles tendon rupture** *Visual Journal of Emergency Medicine*  
Sharon, M. J., Riley, F., Batchelor, T. J.  
2024; 34
- **Rapid diagnosis of quadriceps tendon rupture using bedside ultrasound** *Visual Journal of Emergency Medicine*  
Ten, N. S., Ashenburg, N. G., Batchelor, T. J.  
2024; 36
- **The role of POCUS for the initial detection of testicular cancer in the emergency department** *Visual Journal of Emergency Medicine*  
Henderson, J., Ashenburg, N. G., Batchelor, T. J.  
2024; 36
- **Use of Point of care ultrasound in a case of near pace-maker lead cardiac perforation** *Visual Journal of Emergency Medicine*  
Marquez, M., Batchelor, T. J.  
2024; 36
- **Employing point-of-care ultrasound to diagnose pediatric elbow fracture** *Visual Journal of Emergency Medicine*  
Brunson, D., Gupta, P., Batchelor, T. J.  
2024
- **Blunt chest injury and pleural effusion following cardiopulmonary resuscitation** *Visual Journal of Emergency Medicine*  
Khan, A., Batchelor, T. J.  
2024
- **Young Woman With Recurrent Vision Loss** *Annals of Emergency Medicine*  
Nishath, T., Anderson, K. L., Batchelor, T. J.  
2024; 83 (6): 611-612
- **Adult female with intermittent epigastric pain.** *Journal of the American College of Emergency Physicians open*  
Chiacchia, S., Davis-Allen, P., Dowling, S., Batchelor, T. J.  
2023; 4 (6): e13083
- **Visualizing mitral valve prolapse with M-mode** *Visual Journal of Emergency Medicine*  
Ognian, I., Batchelor, T. J.  
2023; 33
- **De Quervain tenosynovitis diagnosed on point-of-care ultrasound** *Visual Journal of Emergency Medicine*  
Franklin, B. J., Batchelor, T. J.  
2023; 33
- **Dynamic EPSS changes in a case of flash pulmonary edema secondary to NSTEMI** *Visual Journal of Emergency Medicine*  
Johnson, B. A., Batchelor, T. J.  
2023; 33
- **Traumatic atrial septal defect diagnosed by bedside point-of-care ultrasound.** *Radiology case reports*  
Batchelor, T. J., Imperato, N. S., Wheel, K. L., Rennie, A. J., Roth, K. R.  
2022; 17 (12): 4546-4549

- **Antihypertensives- ACEi/ARB, B1-antagonists, a2-agonists** *EMRA and ACMT Medical Toxicology Guide*  
Batchelor, T. J., Hardy, S. G.  
edited by Katz, K. D.  
2022; 2: 159-163
- **Antihypertensives- B-adrenergic antagonists, calcium channel antagonists, diuretics, vasodilators** *EMRA and ACMT Medical Toxicology Guide*  
Batchelor, T. J., Kane, B.  
edited by Katz, K. D.  
2022; 2: 163-170
- **Physician-directed smoking cessation using patient "opt-out" approach in the emergency department: A pilot program.** *Journal of the American College of Emergency Physicians open*  
Greenberg, M. R., Greco, N. M., Batchelor, T. J., Miller, A. H., Doherty, T., Aziz, A. S., Yee, S. Z., Arif, F., Crowley, L. M., Casey, E. W., Krukltis, R. J.  
2020; 1 (5): 782-789
- **Prevalence of Homelessness by Gender in an Emergency Department Population in Pennsylvania.** *The Journal of the American Osteopathic Association*  
Feldman, B. J., Craen, A. M., Enyart, J., Batchelor, T., Friel, T. J., Dusza, S. W., Greenberg, M. R.  
2018; 118 (2): 85-91