# Mat Goebel, MD, MAS

# **Emergency Medicine**

Education		
Certificate, Clinical and Translational Science, Tufts University, Boston, MA	2023	
MD, University of California San Diego, La Jolla, CA	2019	
MAS, Clinical Research, University of California San Diego, La Jolla, CA	2018	
Certificate, Paramedicine (Valedictorian), Utah Valley University, Orem, UT	2011	
BA, Theatre Arts Studies (Magna Cum Laude), Brigham Young University, Provo,	UT 2010	
Postdoctoral Training		
Emergency Medical Services Fellow, UMass Chan - Baystate, Springfield, MA	07/2023 - 06/202	
Emergency Medicine Research Fellow, UMass Chan - Baystate, Springfield, MA	07/2022 - 06/202	
Emergency Medicine Resident, UMass Chan - Baystate, Springfield, MA	07/2019 - 06/202	
Academic Appointments		
Clinical Instructor Department of Emergency Medicine, UMass Chan – Baystate, Springfield, MA	07/2022 - Presen	
Other Positions and Employment		
Production Assistant, EM:RAP, Woodland Hills, CA	2017-2018	
Volunteer Paramedic, Sandy City Fire Department, Sandy, UT	2012-2014	
Freelance Audio Engineer / RF Coordinator, San Diego, CA	2010-2016	
Chief Sound Engineer, Google, Mountain View, CA	2009-2009	
Sound Technician, Brigham Young University Office of IT, Provo, UT	2007-2010	
Referral Sound Engineer, International Alliance of Theatrical Stagecraft Employees, San Francisco, CA	2004-2009	
Sound Engineer Supervisor, Paramount's Great America, Santa Clara, CA	2004-2005	
Show Control Programmer, Nickelodeon Recreation, Orlando, FL	2004	
Sound Engineer, Paramount's Great America, Santa Clara, CA	2003-2004	
Shop Technician, Group3 Enterprises, Fremont, CA	1999-2000	
Honors and Awards		
Emmy for Special Event Coverage (National Academy of Television Arts and Scient	ence) 2011	
Academic Merit Scholar (Utah Valley University)	2010-201	
Karl G Maeser Scholar (Brigham Young University)	2010	
Scholarship (International Communication Industries Foundation)	2007-201	
Merit Scholar (Brigham Young University)	2007-200	
Edwin S. Hinckley Scholar (Brigham Young University)	2008	

**Updated:** September 6, 2023

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Member (Golden Key Honor Society)	2008			
Eagle Scout (Boy Scouts America)	2002			
Educational Activities				
Educational Leadership, Administration and Service				
Core Curriculum Committee (Member), UC San Diego School of Medicine	2015-2019			
Teaching Activities in Programs and Courses				
EMT Program Lecturer and Lab Instructor, National University, San Diego, CA	2017-2019			
Anatomy Lab Teaching Assistant, UCSD School of Medicine, San Diego, CA	2017-2019			
Paramedic Program Lecturer and Lab Instructor, Utah Valley University, Orem, UT	2012-2014			
Part-time Lecturer, Brigham Young University Department of Theatre, Provo, UT	2008-2010			
Advising and Mentoring				
Residents				
Joseph Stevens, Emergency Medicine Resident, UMass Chan - Baystate, Career/Residency Advising Dean Cataldo, Emergency Medicine	2020 - 2023			
Resident, UMass Chan - Baystate, Career/Residency Advising	2021 - Present			
Stephanie Ayala, Emergency Medicine Resident, UMass Chan - Baystate, Research Case Report Advising Laura Director, Emergency Medicine	2021 - 2023			
Resident, UMass Chan - Baystate, Research Case Report Advising	2021 - Present			
Investigation				
Grants				
Completed				
5 TL1 TR 2546-5 Tufts University TL-1	2022-2023			
"A novel algorithm to improve the prehospital diagnosis of STEMI"				
\$78,858, (direct \$73,202, indirect \$5,656)				
UC San Diego School of Medicine "TL-1 grant for Masters of Advanced Studies" Covered coursework tuition and living stipend	2018-2019			
Intermountain Research Medical Foundation "A model for predicting emergency physician opinion of electrocardiogram tracing data quality." Statistical support. \$500.	2012-2013			
Current Unfunded Projects				
The pharmacology of prehospital rapid sequence intubation and risk factors for awareness with paralysis	2023-Present			

2021-Present

Upper vs Lower Extremity IO for Prehospital Cardiac Arrest

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# **Health Care Delivery**

Leadership Positions				
Ultrasound Service Manager UCSD Student Run Free Clinic, Pacific Beach, CA	2018-2019			
Cardiology Service Manager UCSD Student Run Free Clinic, Pacific Beach, CA	2014-2016			
Certification and Licensure				
Massachusetts Board of Registration in Medicine	2021-2022			
Nationally Registered Paramedic, National Registry of Emergency Medical Technicians	2011-2023			
Clinical Activities				
EKG Technician, Intermountain Healthcare, Murray, UT	2010-2014			
Medical Technician, Boy Scouts of America, Fort AP Hill, VA	2010			
Emergency Medical Technician, Brigham Young University EMS, Provo, UT	2009-2010			
Camp Medic, Boy Scouts of America, Willits, CA	2008-2011			
Clinical Innovations, Safety, and Quality Improvement Projects				
Study of factors affecting door-to-EKG times, Baystate Medical Center	2021-2023			

# **Scholarship**

#### **Peer-reviewed Publications**

1. Goebel M, Lauren M. Westafer, Stephanie A. Ayala, El Ragone, Scott J. Chapman, Masood R. Mohammed, Marc R. Cohen, et al. "A Novel Algorithm for Improving the Prehospital Diagnostic Accuracy of ST-Segment Elevation Myocardial Infarction." Prehospital and Disaster Medicine, December 4, 2023, 1-8. https://doi.org/10.1017/S1049023X23006635.

2020-2023

Implementation of High-Sensitivity Troponin, Baystate Medical Center

- 2. Goebel M, Vaida F, Kahn C, Donofrio JJ. A Novel Algorithm for Improving the Diagnostic Accuracy of Prehospital ST-Elevation Myocardial Infarction. Prehosp Disaster med. September 2019:1-8. doi:10.1017/S1049023X19004849
- 3. Goebel M, Dameff C, Tully J. Hacking 9-1-1: Infrastructure Vulnerabilities and Attack Vectors. Journal of Medical Internet Research. 2019;21(7):e14383. doi:10.2196/14383
- 4. Farah J, Goebel M, Pierce J, Donofrio JJ. Epidemiology of Prehospital Care at the San Diego (USA) Tijuana (Mexico) International Border Crossing. Prehospital Emergency Care. 2019;0(ja):1-7. doi:10.1080/10903127.2019.1640325
- 5. Goebel M, Bledsoe J. Push Notifications Reduce Emergency Department Response Times to Prehospital ST-segment Elevation Myocardial Infarction. West J Emerg Med. 2019;20(2):212-218. doi:10.5811/westjem.2018.12.40375
- 6. Goebel M, Tainter C, Kahn C, Dunford J V., Serra J, Pierce J, Donofrio JJ. An Urban 911 System's Experience with Left Ventricular Assist Device Patients. Prehospital Emerg Care. October 2018:1-19. doi:10.1080/10903127.2018.1532475
- 7. Coffey C, Serra J, Goebel M, Espinoza S, Castillo E, Dunford J. Prehospital Acute ST-Elevation Myocardial Infarction Identification in San Diego: A Retrospective Analysis of the Effect of a New Software Algorithm. J Emerg Med. May 2018. doi:10.1016/j.jemermed.2018.04.007.

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8. Goebel M, Busico L, Snow G, Bledsoe J. A model for predicting emergency physician opinion of electrocardiogram tracing data quality. J Electrocardiol. 2018:51(4):683-686. doi:10.1016/j.jelectrocard.2018.05.001.

- 9. Tainter CR, Braun OÖ, Teran F, Nguyen AP, Robbins K, O'Brien EO, McMillan ZM, Schmidt U, Meier A, Goebel M, Pretorius V, Brambatti M, Adler ED, Seethala R. Emergency department visits among patients with left ventricular assist devices. Intern Emerg Med. December 2017:1-7. doi:10.1007/s11739-017-1776-8.
- 10. Goebel M, Bledsoe J, Orford JL, Mattu A, Brady WJ. A new ST-segment elevation myocardial infarction equivalent pattern? Prominent T wave and J-point depression in the precordial leads associated with STsegment elevation in lead aVr. The American journal of emergency medicine. 2014;32(3):287.e5-8. doi:10.1016/j.ajem.2013.09.037

# **Books & Chapters**

- 1. Smith SW. The ECG in Acute MI: An Evidence-Based Manual of Reperfusion Therapy 2nd Ed. Philadelphia: Lippincott Williams & Wilkins. (Pending)
- 2. Human Condition. UC San Diego School of Medicine (2014-2015)

## Non-print / Online materials

- 1. EMRA. (2019, October) Nexus C-Spine Journal Club [EMRA\*Cast] Retrieved from: https://podcasts.apple.com/us/podcast/emra-cast/id1103929517
- 2. Goebel M. (2017, August) Guest interview: De Winter's T Wave. [Emergency Medicine Reviews and Perspectives]. Retrieved from: https://www.emrap.org/episode/emrapliveaugust/dewinterstwave
- 3. Goebel M. (2015, March) 2014 Prehospital/EMS articles of the Year [PHARM: Prehospital and Retrieval Medicine]. Retrieved from http://prehospitalmed.com/2015/03/03/2014-prehospitalems-articles-of-thevear/
- 4. Goebel M. (2014, September) Pacemaker Panic #2 [Life In The Fast Lane]. Retrieved from http://lifeinthefastlane.com/pacemaker-panic-2/
- 5. Goebel M. (2014, April) De Winter's T Waves [Life In The Fast Lane]. Retrieved from http://lifeinthefastlane.com/ecg-library/de-winters-t-waves
- 6. Goebel M. (2014, April) Winter is coming... [Life In The Fast Lane]. Retrieved from http://lifeinthefastlane.com/winter-is-coming/

#### **Invited Presentations**

#### **National**

When All Else Fails: Perimortem C-Section, ACEP Virtual Grand Rounds, Virtual	February 2021			
Regional				
Out of Hospital Cardiac Arrest: ED Perspective, Western New England Acute Cardiology Conference, Springfield, MA	October 2022			
ECPR / ECLS, 51st Annual Samuel D. Plotkin Cardiovascular Symposium, Virtual	September 2022			
When All Else Fails: Perimortem C-Section, Washington University School of Medicine Steven R. Hall Trauma Symposium, Virtual	October 2021			
<u>Cardiac Arrest: An ED Perspective</u> , Western New England Acute Cardiology Conference, Virtual	October 2021			

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Surviving Suicide: Coping with the Silent Epidemic, California ACEP, Marina del Rey, CA  20:  NSTEMIs that need the cath lab now, Intermountain Healthcare EMS Conference, Murray, Apply UT  2015 Pre-hospital Research Update, Intermountain Healthcare EMS Conference, Murray, UT  Killer EKGs (other than STEMI), Intermountain Healthcare EMS Conference, Murray, UT  Local  Tachycardias, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKGs: What Every Intern Needs to Know, UMass Chan - Baystate EM Medical Student Elective, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Bradycardia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Toxicology, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  EKG Case Review: Ischemia, UMass Chan - Baystate EM Grand Rounds, Springfield, MA  E
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Best Practices for STEMI Care, Intermountain Healthcare STEMI Committee, Murray, UT Apr
STEMI Pearls and Pitfalls, Sandy City Fire Department, Sandy, UT  Jar
STEMI Pearls and Pitfalls, Sandy City Fire Department, Sandy, UT  EKG Pearls and Pitfalls in the ED, Emergency Nurse's Association Salt Lake City Chapter, Murray, UT  Apr
EKG Pearls and Pitfalls in the ED, Emergency Nurse's Association Salt Lake City  Apr
EKG Pearls and Pitfalls in the ED, Emergency Nurse's Association Salt Lake City Chapter, Murray, UT What's new in Pre-hospital STEMI, Intermountain Medical Center STEMI Committee, Apr

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### Other Presentations, Posters & Abstracts

#### International

**Goebel M**, Bledsoe J. Push notifications reduce Emergency Department response times June 2017 to pre-hospital ST-segment myocardial infarction. Social Media and Critical Care Conference. Berlin, Germany. Poster Presentation.

#### **National**

**Goebel M**, Lolley RJ, Reed L, Ratcliff T, Jarvis, J. Intraosseous Access Location Does Not 
January 2023 Change Rates of Return of Spontaneous Circulation in Pre-hospital Cardiac Arrest.

National Association of EMS Physicians (NAEMSP) Scientific Assembly. Tampa, FL.

Poster Presentation.

Farah J, **Goebel M**, Pierce J, Donofrio JJ. Epidemiology of 911 Calls at the San Diego April 2019 Border Crossing. Fire-Rescue Med Conference. Henderson, NV. Poster Presentation.

Farah J, **Goebel M**, Pierce J, Donofrio JJ. Epidemiology of 911 Calls at the San Diego January 2019 Border Crossing. National Association of EMS Physicians (NAEMSP) Scientific Assembly. Austin, TX. Poster Presentation. (Prehospital Emerg Care. September 2018:1-251)

**Goebel M**, Kahn C, Dunford J, Donofrio J. An Urban Fire Department's Experience with Left Ventricular Assist Device Patients. 2017 American College of Emergency Physicians (ACEP) Scientific Assembly. Washington D.C. Oral Presentation. (Annals of Emerg Med. Vol 70, No. 4S: Oct 2017.)

**Goebel M**, Bledsoe J. A Novel Method for Prehospital Diagnosis of ST-segment elevated Myocardial infarction. Social Media and Critical Care Conference. Chicago, IL. Oral Presentation.

## Regional

**Goebel M**, Goodrich M, Lutfy-Clayton C, Kellogg A, Osborne B, Westafer L. A April 2021 coordinated social media strategy to aid the residency application and match process. Society for Academic Emergency Medicine New England Regional Meeting. Virtual Event. Oral Presentation.

**Goebel M**, Bledsoe J. A Novel Method for Prehospital Diagnosis of ST-segment elevated myocardial infarction. University of Utah's 9<sup>th</sup> Annual Health Services Research Conference. Salt Lake City, UT. Poster Presentation.

**Goebel M**, Bledsoe J. Prehospital Diagnosis of ST-segment elevated myocardial infarction. Utah Valley University's 3rd Annual Emergency Services and Disaster Conference. Orem, UT. Oral Presentation.

#### Local

**Goebel M**, Lolley RJ, Reed L, Ratcliff T, Jarvis, J. Intraosseous Access Location Does Not Une 2023 Change Rates of Return of Spontaneous Circulation in Pre-hospital Cardiac Arrest. 25th Annual Clinical and Translational Science Graduate Program Symposium. Boston, MA. Oral Presentation.

**Goebel M**, Lolley RJ, Reed L, Ratcliff T, Jarvis, J. Intraosseous Access Location Does Not May 2023 Change Rates of Return of Spontaneous Circulation in Pre-hospital Cardiac Arrest. Baystate Health Research and Education Celebration. Springfield, MA. Poster Presentation.

### **Academic Service**

#### **Internal Administration and Service**

#### **Department**

Social Media Outreach (Faculty Liaison), Department of Emergency Medicine, UMass 2022 - Chan - Baystate Present

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Cocial Madia Outusesh (Pacident Chair) Department of Emergency Madiaine LIMage	2020 2022		
Social Media Outreach (Resident Chair), Department of Emergency Medicine, UMass Chan - Baystate	2020 - 2022		
School			
Emergency Medicine Interest Group (Senior Advisor), UC San Diego School of Medicine	2018-2019		
Emergency Medicine Interest Group (President), UC San Diego School of Medicine	2017-2018		
Emergency Medicine Interest Group (Co-President), UC San Diego School of Medicine	2016-2017		
Emergency Medicine Interest Group (Class Representative), UC San Diego School of Medicine	2014-2016		
Ultrasound Medicine Interest Group (Class Representative), UC San Diego School of Medicine	2015-2017		
Student Council (Educational Computing Representative), UC San Diego School of Medicine	2014-2017		
Health System			
Technology & Architecture Review Board (Member), Baystate Health	2020-Present		
Decedent Affairs Committee (Member), Baystate Health	2019-Present		
EKG Transmission Task Force (Member), Los Angeles County EMS Agency	2017-2019		
STEMI Quality Improvement Committee, Intermountain Healthcare	2011-2014		
Professional Memberships and Activities Society for Academic Emergency Medicine • Research Committee (Member) (2022-2023) Society of Ultrasound in Medicine, Member	2022-Present		
American College of Emergency Physicians, Member	2016-Present		
<ul> <li>EMRA Liaison to the Research Committee (2022-2023)</li> <li>EMS Committee (Member) (2020-Present)</li> <li>Medical Student Track Planning Committee (Member) California American College of Emergency Physicians (2018)</li> </ul>	2014-Present		
<ul> <li>Emergency Medicine Residents' Association</li> <li>Research Committee (Assistant Vice Chair) (2021-2023)</li> <li>CaseCon (Director) (2022)</li> <li>CaseCon (Assistant Director) (2021)</li> <li>Informatics Committee (Member) (2015-2019)</li> <li>Research Committee (Member) (2015-2019)</li> <li>Social Media (Chair), National Ultrasound Interest Group</li> </ul>	2014-Present		
Podcast Editor, EMS Medical Directors Association of California	2015-2019		
American College of Medical Toxicology	2017-2018		
National Association of Emergency Medical Technicians	2016-2017		
Synergetic Audio Concepts	2010-2014		
United States Institute for Theatre Technology	2005-2010		
Audio Engineering Society	2005-2010		
	2004-2010		
Editorial Responsibilities			
Annals of Emergency Medicine, Social Media Intern	2017-2022		
Smith SW. The ECG in Acute MI: An Evidence-Based Manual of Reperfusion Therapy 2nd Ed. Philadelphia: Lippincott Williams & Wilkins. Chief Editor.	2017-Present		

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	American College of Emergency Physicians. <i>Critical care transport 2<sup>nd</sup> Ed.</i> In: Sudbury Mass.: Jones and Bartlett Publishers; 2017. Chapter 11 Neurologic Emergencies. Chapter 13 Cardiovascular Emergencies. Reviewer	2017
	Wannacott, D. (2015, September) Medical Concepts: ECGs in Syncope [BoringEM]. Retrieved from <a href="https://canadiem.org/medical-concept-ecgs-in-syncope/">https://canadiem.org/medical-concept-ecgs-in-syncope/</a> . Reviewer	2015
	UCSD Human Condition, Editor	2014-2015
	External Professional Service	
	International	
	Pre-hospital Pre-conference Planning Committee, Social Media and Critical Care Conference, Sydney, AU	2018-2019
	Student Volunteer, Social Media and Critical Care Conference, Berlin, DE	2017
	Student Volunteer, Social Media and Critical Care Conference, Chicago, IL	2015
	Regional	
	AV Coordinator, Reanimate ECMO Conference	2019
	Medical Student Track Planning Committee (Member), California American College of Emergency Physicians	2018
	Podcast Editor, EMS Medical Directors Association of California	2017-2018
	Student Volunteer, Reanimate ECMO Conference	2016-2018
Professional Development		
	Emergency Vehicle Operations Course	2023
	Fundamentals of Medical Oversight Course	2023
	Cadaver Regional Anesthesia Lab	2022
	Advanced Trauma Life Support for Physicians	2019
	NIH Stroke Scale International, National Institutes of Health	2018
	Medical Spanish I + II, National Institutes of Health	2015
	The Difficult Airway Course: EMS	2013
	Introduction to Incident Command System, ICS-100	2023
	Applying ICS to Healthcare Organizations, I-200	2008
	ICS for Single Resources and Initial Action Incidents IS-200	2023
	Emergency Support Function (ESF) #8, IS-808	2008