

FALL 2024

RESEARCH NEWSLETTER

Northwestern University Feinberg School of Medicine



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DEPARTMENT OF EMERGENCY MEDICINE

The Department of Emergency Medicine at Northwestern University Feinberg School of Medicine publishes this quarterly research newsletter to highlight department newcomers, Q & A sections from current faculty and alumni, faculty and residency research spotlights, publications updates, and many more features.

WELCOME!

NEW FACULTY MEMBERS

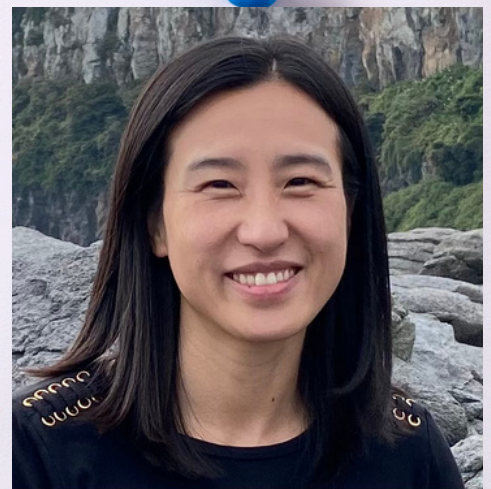


Susan Parker

Research Assistant Professor

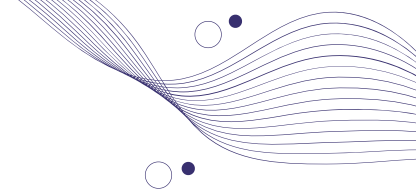
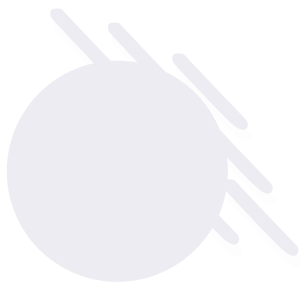
Dr. Susan Parker is a quantitative social scientist applying causal inference and machine learning methods to research violence reduction and in particular gun violence and policing. Parker holds a PhD in Health Policy with an economics cognate from the University of Michigan's School of Public Health as well as an MS and MPP from the University of Chicago. Previously, she worked as a senior data scientist.

Dr. Soyang Kwon is an Epidemiologist/biostatistician whose research is focused on an application of quantitative methods in various behavioral health research. Dr. Kwon has a research program to conduct epidemiological observational studies and develop real-world data-based analytic tools. Dr. Kwon also serves as a team member of various health research groups to provide services related to grant writing, study design, statistical analysis plan, data analysis, and data interpretation.



Soyang Kwon

Research Associate Professor



NEWLY FUNDED GRANTS

Site PI: **Howard Kim**

Mechanism: R01

Title: [A Multi-Site Feasibility Trial of Embedded Emergency Department Physical Therapy for Back Pain](#)

Funder: National Center for Complementary and Integrative Health (NCCIH)

This 1.6 million dollar award will support Howard and his team over the next 3 years to evaluate the feasibility of deploying a physical therapy intervention for back pain (with which you're familiar) into other health systems while building towards a larger trial.



Howard Kim, MD
Associate Professor

Site PI: **Lindsay Allen**

Mechanism: R01

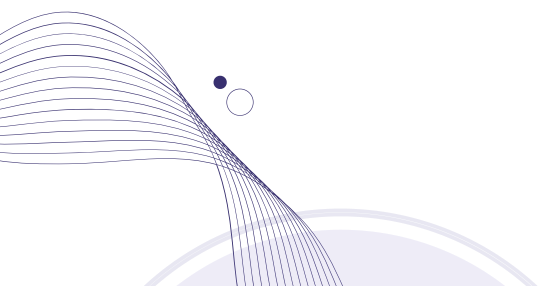
Title: [The Impact of Recreational Cannabis Legalization on Substance Use Outcomes](#)

Funder: CDC

This R01 award is for 1 million dollars and will support Lindsay and team as they measure the effects of recreational cannabis legalization on substance use for self-management of pain and quantify the impact of these policies on opioid morbidity and mortality.



Lindsay Allen, PhD MA
Assistant Professor





FACULTY SPOTLIGHT

CONGRATS!

Dr. Abra Fant was awarded the SAEM Early Educator Award for demonstrating commitment and achievement in research during the early stage of her academic career. This high-profile SAEM award honors her extraordinary contributions and impact in emergency medicine education.

She is also recognized for “Extra Exemplary Professionalism,” an honor awarded to faculty members who receive numerous professionalism nominations from students on the EM rotation. This recognition highlights her exceptional leadership, teaching, and patient care within our clinical environment.

Dr. David Zull received the Gary A. Mecklenburg Distinguished Physician Award in honor of his contributions and achievements in the medical field. This prestigious award, one of the hospital's highest honors, is presented annually to a physician nominated by their peers who exemplifies professionalism, compassion, and dedication to improving others' lives through research, education, patient care, or community service.

Dr. Danielle McCarthy, Vice Chair of Research, has been honored with the SAEM Mid-Career Investigator Award, a highly competitive recognition for leaders in emergency medicine. A respected clinician and mentor, Dr. McCarthy's pioneering work in patient communication on opiate misuse and diagnostic uncertainty has significantly advanced the field. Her rigorous, innovative approach continues to shape EM practice and inspire the next generation of clinical researchers.



Abra Fant, MD MS FACEP
Associate Professor &
Program Director



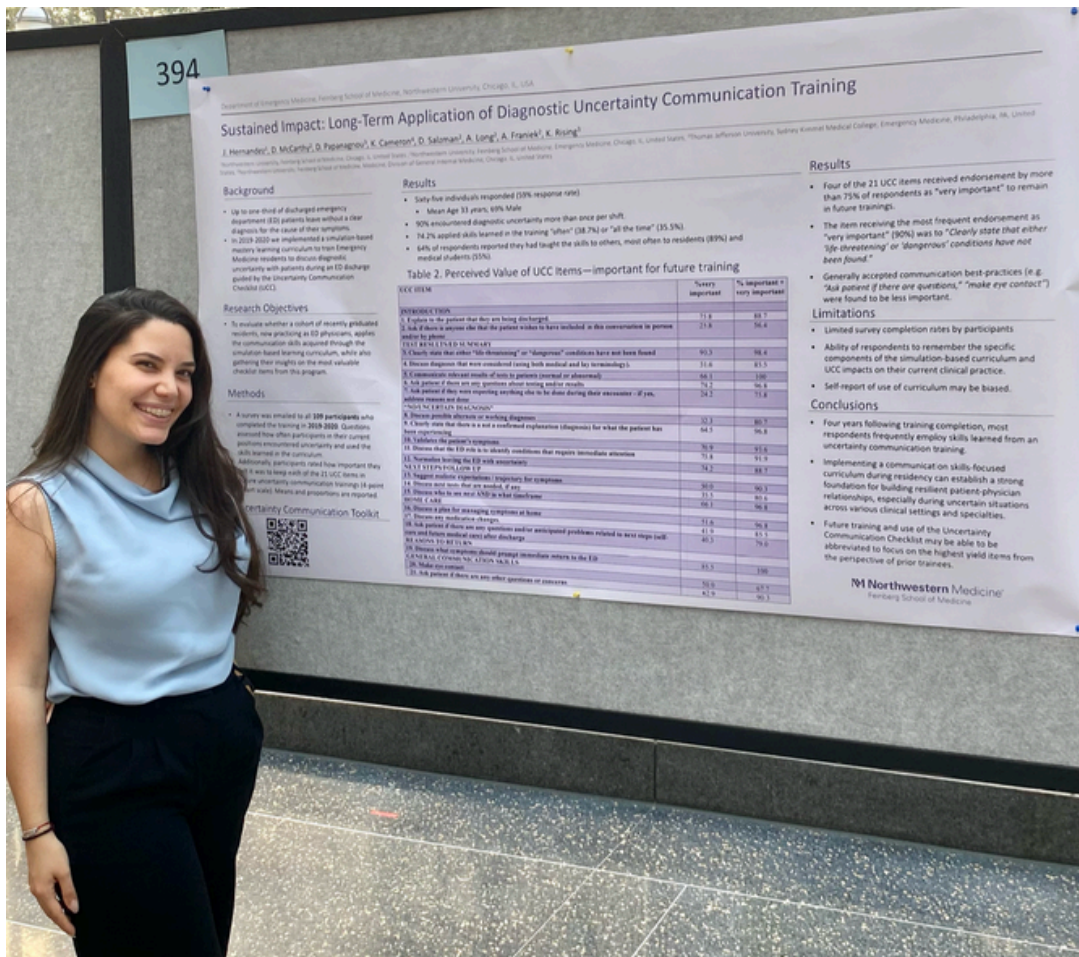
David N. Zull, MD



Danielle M. McCarthy, MD, MS, FACEP
Vice Chair of Research &
Associate Professor

COLLABORATIVE SHOWCASE

Medical student, Jethel Hernandez presented her poster, Sustained Impact: Long-Term Application of Diagnostic Uncertainty Communication Training, on Research Day, in collaboration with Drs. Danielle McCarthy and David Salzman.





PUBLICATIONS SPOTLIGHT

faculty in bold, residents italicized, alumni with *

Olson AS*, Li-Sauerwine S*, Kraut AS*, Burns W*, **Williamson K**, Branzetti J*, Hartman ND*, Oskvarek JJ, Aldeen A*, Perceptions of the current and future emergency medicine workforce. J Am Coll Emerg Physicians Open 2024 Oct;5(5):e13279. pii:e13279

Burford KG, Itzkowitz NG, Crowe RP, Wang HE, **Lo AX**, Rundle AG Clinical trauma severity of indoor and outdoor injurious falls requiring emergency medical service response. Inj Epidemiol 2024 Aug 09;11(1):36. pii:36

Chan JL, Tsay S, Sambara S, **Welch SB** Understanding the Use of Mobility Data in Disasters: Exploratory Qualitative Study of COVID-19 User Feedback. JMIR Hum Factors 2024 Aug 01;11:e52257. pii:e52257

AbiNader MA, Rundle AG, Park Y, **Lo AX** Population-Level Surveillance of Domestic Assaults in the Home Using the National Emergency Medical Services Information System (NEMSIS). Prev Sci 2024 Aug;25(6):882-890. doi:10.1007/s11121-024-01683-w

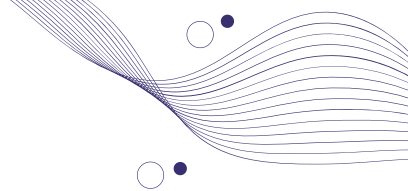
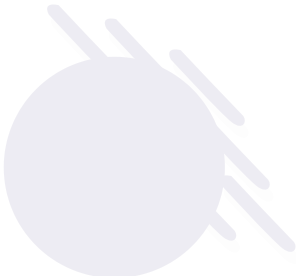
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Lundberg AL, Fox JA, Mohammad H, **Mason M**, Salina D, Victorson D, Parra-Cardona R, **Post LA** Public Mass Shootings: Counterfactual Trend Analysis of the Federal Assault Weapons Ban JMIR Public Health Surveill 2024;10:e62952

Klein MR*, Leibowitz MK*, **Fant AL** Evidence-Informed Emergency Medicine Career Advising. AEM Educ Train 2024 Jun;8(3):e10969. pii:e10969

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Kannam A, Cowett A, Caruso K, Lau K, Allen K, **Lank PM, McCarthy DM, Kim HS** Fentanyl test strip distribution acceptability and use among substance-related emergency department visits. Acad Emerg Med 2024 May 06;. doi:10.1111/acem.14934

Pruitt P, Castillo R*, Rogers A*, Prabhakaran S, *Muschong K*, Scudder M, **McCarthy DM**, Holl JL, Courtney DM, Borczuk P et al. External Validation of a Tool to Identify Low-Risk Patients With Isolated Subdural Hematoma and Preserved Consciousness. Ann Emerg Med 2024 May;83(5):421-431. doi:10.1016/j.annemergmed.2023.08.481

Klein MR*, Loke DE*, Barsuk JH, Adler MD, McGaghie WC, **Salzman DH** Twelve tips for developing simulation-based mastery learning clinical skills checklists. Med Teach 2024 Apr 26;:1-6. doi:10.1080/0142159X.2024.2345270

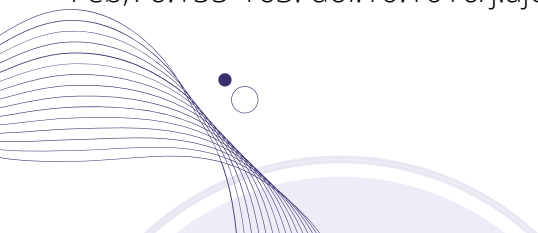
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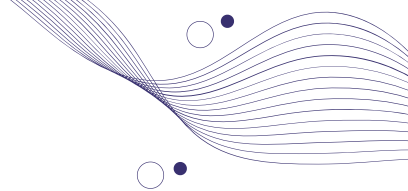
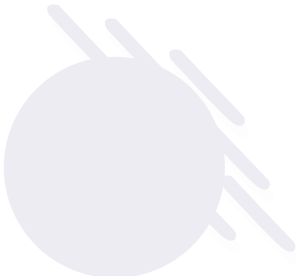
Klein MR*, **Quarles AR, Fant AL** Help Me Help You: How to Request a Letter of Recommendation. South Med J 2024 Feb;117(2):106-107. doi:10.14423/SMJ.0000000000001647

Rundle AG, Crowe RP, Wang HE, Beard JR, **Lo AX** A National Study on the Comparative Burden of Pedestrian Injuries from Falls Relative to Pedestrian Injuries from Motor Vehicle Collisions. J Urban Health 2024 Feb;101(1):181-192. doi:10.1007/s11524-023-00815-x

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Won D, Workman C, Walker J, Zordani E, Bajaj P, Chen Z, Asthana S, Liu T, Christopher Malaisrie S, **McCarthy DM, Adams JA, Lundberg A.** When the economy falters, hearts suffer: Economic recessions as a social determinant of health in cardiovascular emergencies. Am J Emerg Med 2024 Feb;76:155-163. doi:10.1016/j.ajem.2023.11.036





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Reyes-Gibby CC, Caterino JM, Coyne CJ, **Kyriacou DN**, Qdaisat A, McQuade J, Owen DH, Bischof JJ, Shete S, Yeung SJ Immune-related adverse event in the emergency department: methodology of the immune-related emergency disposition index (IrEDI). *Emerg Cancer Care* 2024;3(1). pii:1

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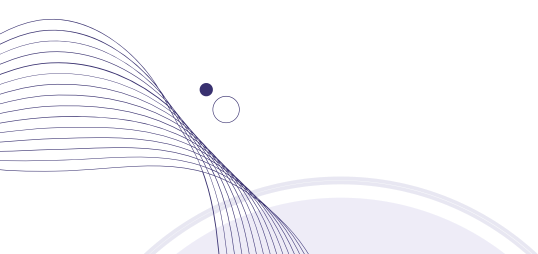
Laura McLane, José M. Oliva-Lozano, Michele Kerulis, Rick Cost, Jessica Bartley, **George Chiampas**, Examining the value of mental health awareness training for soccer coaching license candidates, *Apunts Sports Medicine*, Volume 59, Issue 224, 2024,100459, ISSN 2666-5069, <https://doi.org/10.1016/j.apunsm.2024.100459>.

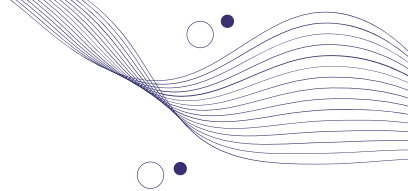
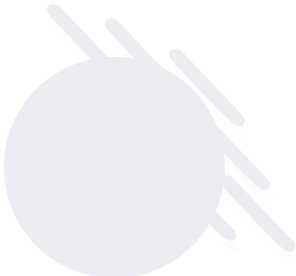
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Gottlieb M, Regan L, Jordan J, Westrick J, **Bailitz J** Education Value Units in Medical Education: A Scoping Review. Acad Med 2023 Jun 01;98(6):743-750. doi:10.1097/ACM.0000000000005130

Liu SW, Lee S, Hayes JM, Khoujah D, **Lo AX**, Doering M, de Wit K, Head computed tomography findings in geriatric emergency department patients with delirium, altered mental status, and confusion: A systematic review. Acad Emerg Med 2023 Jun;30(6):616-625. doi:10.1111/acem.14622

Kyriacou DN, Greenland P, Mansournia MA Using Causal Diagrams for Biomedical Research. Ann Emerg Med 2023 May;81(5):606-613. doi:10.1016/j.annemergmed.2022.08.014

The Department of Emergency Medicine at Northwestern University Feinberg School of Medicine welcomes your questions and feedback.

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