

THE CENTER FOR ACCELERATING  
PRACTICES TO END SUICIDE

# CAPES IMPACT REPORT YEAR 2



**MARCH 2025**

Prepared by

**ALEXANDRA  
BOLAND, MA**

**EKATERINA  
PIVOVAROVA, PHD**

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# LETTER FROM OUR DIRECTOR



## ED BOUDREAUX, PHD

Professor of Emergency Medicine,  
Psychiatry and Quantitative Health  
Sciences

Vice Chair of Research, Department of  
Emergency Medicine, University of  
Massachusetts Chan Medical School

The second year of CAPES was incredibly productive. We hit our milestones, often in the face of incredible challenges. We continue to foster a rich environment where a nationwide network of world-class organizations and scientists collaborate to create the latest innovations in suicide prevention, digital health, and implementation. Faculty from our center have led numerous efforts that cut across the NIMH's P50 Centers, firmly establishing CAPES as a premier leader in the field of suicide prevention.

Notably, CAPES was awarded a new grant by the Four Pines Fund, a philanthropic foundation focused on improving evidence-based suicide care. This new line of funding comes during a precarious time where the national landscape of federal funding is volatile and uncertain. Diversifying our funding portfolio has become an urgent priority, and CAPES' relationship with Four Pines is moving forward this strategic goal.

We should be proud of our outstanding scholarly impact. In this second year, CAPES Faculty have published **139** peer-reviewed articles in high-impact journals. This level of productivity is unprecedented.

**We would like to sincerely thank all CAPES personnel for their contributions, creativity, patience, hard work, and positive attitudes. It is really a pleasure to work with such an outstanding team.**

# THANK YOU DR KIEFE



**CATARINA KIEFE,  
PHD, MD**

Professor of Population and Quantitative Health Sciences Melvin S. and Sandra L. Cutler Endowed Chair in Biomedical Research University of Massachusetts Chan Medical School



CAPES is experiencing a leadership change. Dr. Catarina Kiefe is stepping down as Co-Director, leaving Dr. Boudreaux as sole Director while the Center recruits a methodologist to replace her. Dr. Kiefe has served CAPES with distinction, building methodological expertise spanning a truly impressive range of disciplines. While stepping down as Director, she will remain active in CAPES! She will continue overseeing the Methods Core while transitioning oversight to Drs. Tony Nunes and Emmanuel Agu. The Center owes a great debt to Dr. Kiefe, and her legacy will live on through the transdisciplinary team she built. Dr. Kiefe's reduction in responsibility will enable her to spend more time mentoring the next generation, be with her family, and travel the world.



The background of the top half of the slide is a photograph. It shows a modern, multi-story building with a glass facade that reflects the sky and clouds. In the foreground, there is a low, grey stone wall with the words "UMASS CHAN MEDICAL SCHOOL" carved into it in large, raised, serif capital letters. The sky is clear and blue.

# WHAT IS CAPE?

## OUR VISION IS

“To prevent suicide by accelerating delivery of evidenced-based, compassionate suicide care.”

## OUR MISSION IS

“P50: To study how suicide-care technologies can support our vision.”

# FEATURED UNIT ACCOMPLISHMENTS

## ADMINISTRATIVE CORE

## BUSINESS DEVELOPMENT UNIT

- Hosted an interdisciplinary research symposium and over 200 people attended from across the UMASS university system as well as other top-tier MA universities.
- Received a seed grant from the Provost's office to help offset some of the symposium expenses. Our next event is planned for September 18, 2025.



**Denise Dunlap, PhD**

## DISSEMINATION AND COMMUNITY ENGAGEMENT UNIT



**Lourah Kelly, PhD**

- Held 10 CAB meetings, including on Jaspr, ADAPT, developing Four Pines and Reaching Calm grants. Drafted the digital health tipsheet and submitted a response to an NIMH [Request for Information](#).
- Raised \$2,500 for the American Foundation for Suicide Prevention (Out of Darkness Walk, Worcester, MA)
- Participated in #BeThere Twitter Chat with major organizations (Action Alliance, AFSP, NIMH, etc.)
- Planted flags at UMCMS to commemorate lives affected by suicide
- Published a [best practices tipsheet for responsible reporting of suicide research](#)
- The Lived Experience Advisory Board also contributed valuable insights to enhance our website's layout and resources



## EDUCATION AND SCIENTIFIC DEVELOPMENT UNIT

- Disseminated, evaluated, and selected of R03 projects and scholars (see features below)
- Supported training and dissemination of RFAs
- Took over as Co-Lead of the Methods Core



**Anthony Nunes, PhD**

## ETHICAL, LEGAL, AND SOCIAL IMPLICATION (ELSI) UNIT



**Camille Nebeker, PhD**

- Published [The ethics of proximity: Enrolling patients in emergency department hallway-beds for suicide research](#) focusing on hallway recruitment
- Consulted with colleagues to assist with IRB navigation and establishing safety protocols

## EVALUATION UNIT



**Ekaterina Pivovarova, PhD**

- Produced [Year 1 Impact Report](#)
- Led Year 2 center-wide evaluation
- Created CAPES repository for eScholarship to centralize dissemination products

## OPERATIONS UNIT

- Worked with the center's different units to translate their Y2 goals into SMART (Specific, Measurable, Achievable, Relevant, and Time-bound) Milestones
- Hosted CAPES methods and admin core working retreats
- Hosted CAPES innovation summit
- Collaborated with other P50 centers, attended other P50 centers' retreats: a NIH P50 centers meeting, an AFSP P50 centers meeting that resulted in a Faculty Exchange Program with UPenn center
- Created CAPES undergrad internship program



**Basheer Rahmoun, M.D**

- Presented 2 posters at the Symposium "Friend or Foe: Transforming Social Media and AI for a Healthy Future" on Sep 12th
- Lead the onboarding process for new CAPES Faculty, Staff and Scholars



## METHODS CORE

### DESIGN DATA AND ANALYSIS UNIT

- Welcomed [Dr. JungAe Lee as Unit faculty](#)
- Designed, generated, and presented the first JASPR DSMB Report to the CAPES Data and Safety Monitoring Board (DSMB)
- Programmed and validated the JASPR analytic dataset for all analyses for the JASPR project
- Made substantial progress in obtaining the Real-World Evidence (RWE) data from Ohio State for JASPR analysis
- Finalized the upload of JASPR RCT Data to the NIMH Data Archive (NDA) as required by the CAPES funding agency (NIMH) and automated the process



**Bruce Barton, PhD**



**Jung Ae Lee, PhD**

## ECONOMIC EVALUATION UNIT

- Continued collaboration with JASPR to identify data sources for program cost collection and LEMURS & ADAPT to review the cost component of their grants.
- Developed cost collection forms for JASPR and other studies to support their efforts.



**Karen Clements, ScD, MPH**



**Serena Rajabiun, MA, MPH, PhD**

## IMPLEMENTATION SCIENCE UNIT



**Stephenie Lemon, PhD**



**Ekaterina Pivovarova, PhD**

- Disseminated Exploration, Preparation, Implementation, and Sustainment (EPIS) grounded qualitative interview, Implementation Science (IS) instruments, and Implementation Science Unit (ISU) recommendations
- Reviewed implementation strategies with research mPIs for signature and core studies
- Began adapting the Framework for Reporting Adaptations and Modifications-Expanded (FRAME) framework for use with the application of technology in healthcare settings

## MACHINE LEARNING UNIT



**Emmanuel Agu, PhD**

- A comprehensive literature review to update the proposed methods for the ADAPT and LEMURS projects, and planned systematic review paper on “Machine Learning issues related to already implemented/deployed Machine Learning-based suicide prevention systems”.
- Organized webinar by backpack, a health startup on using Large Language Models (LLMs) for Suicide prevention.
- Took over as Co-Lead of Methods Core.

## PERSON-CENTERED DESIGN UNIT

- Provided workshop on eye-tracking technology with Dr. Djamasbi from WPI, and how it can be utilized for future projects involving person-centered design
- Held advisory group meeting with other PDU members and included representation from Epic
- Met with PFAC to identify stakeholder panels for future support of projects



**Ben Gerber, MD,  
MPH**



**Bengisu Tulu,  
PhD**

# AFFILIATED INSTITUTIONS

THANK YOU!

## PRIMARY FACULTY



## AFFILIATE FACULTY



## CORPORATE PARTNERS



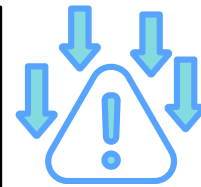


# SCIENTIFIC IMPACT SPOTLIGHT



The faculty and staff at CAPES contribute expertise from diverse disciplines and research fields, ensuring that our work maintains a high scientific impact while advancing research and the translation of evidence-based practices in suicide prevention. CAPES evaluates its scientific impact across three interconnected areas:

Improved identification of suicide risk



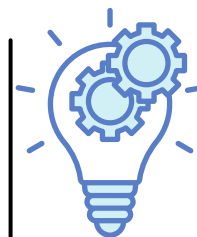
01



02

Decreased suicidal behavior in healthcare and community settings

Implementation of suicide care technologies in healthcare settings.



03

In our second year, our core CAPES team was successful in producing high-impact work!

We published **139 peer-reviewed articles** in high impact journals such as JAMA and Journal of American Medical Informatics Association.

# PUBLICATIONS SPOTLIGHT

[Comment](#) > [Am J Bioeth.](#) 2024 Feb;24(2):99-102. doi: 10.1080/15265161.2024.2298145.

Epub 2024 Jan 31.

## Navigating the Ethical Maze in Digital Health Research

[Camille Nebeker](#)<sup>1</sup>

Affiliations + expand

PMID: 38295251 DOI: [10.1080/15265161.2024.2298145](#)

> [JAMIA Open.](#) 2024 Nov 1;7(4):ooae112. doi: 10.1093/jamiaopen/ooae112. eCollection 2024 Dec.

## Developing personas to inform the design of digital interventions for perinatal mental health

[Martha Zimmermann](#)<sup>1</sup>, [Kimberly A Yonkers](#)<sup>1</sup>, [Karen M Tabb](#)<sup>2</sup>, [Ana Schaefer](#)<sup>3</sup>, [Elizabeth Peacock-Chambers](#)<sup>4</sup>, [Camille A Clare](#)<sup>3</sup>, [Edwin D Boudreaux](#)<sup>1</sup>, [Stephenie C Lemon](#)<sup>1</sup>, [Nancy Byatt](#)<sup>1</sup>, [Bengisu Tulu](#)<sup>5</sup>

Affiliations + expand

PMID: 39494447 PMCID: [PMC11528508](#) DOI: [10.1093/jamiaopen/ooae112](#)



Academic Emergency Medicine  
A GLOBAL JOURNAL OF EMERGENCY CARE

SPECIAL CONTRIBUTION

## The ethics of proximity: Enrolling patients in emergency department hallway beds for suicide research

[Barton W. Palmer PhD](#), [Sarah A. Arias PhD](#), [Denise R. Dunlap PhD](#), [Gwyneth E. Gould BA](#), [Mhd Basheer Rahmoun MD](#), [Edwin D. Boudreaux PhD](#), [Camille Nebeker EdD, MS](#) ✉

First published: 23 January 2025 | <https://doi.org/10.1111/acem.15107>

Current Psychology (2024) 43:25006–25015  
<https://doi.org/10.1007/s12144-024-06169-0>



## Does personalized mean popular? A content analysis of suicide prevention smartphone applications

[Lourah M. Kelly](#)<sup>1,2</sup> , [Sulaikha Buuh](#)<sup>2</sup>, [Melissa Schick](#)<sup>3</sup>, [Claire Peikes](#)<sup>2</sup>, [Kristyn Zajac](#)<sup>2</sup>

Accepted: 17 May 2024 / Published online: 11 June 2024  
© The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2024

[Randomized Controlled Trial](#) > [JAMA Netw Open.](#) 2024 Nov 4;7(11):e2445913.

doi: 10.1001/jamanetworkopen.2024.45913.

## Telehealth Brief Cognitive Behavioral Therapy for Suicide Prevention: A Randomized Clinical Trial

[Justin C Baker](#)<sup>1</sup>, [Austin Starkey](#)<sup>2</sup>, [Ennio Ammendola](#)<sup>1</sup>, [Christina Rose Bauder](#)<sup>1</sup>, [Samantha E Daruwalla](#)<sup>1</sup>, [Jaryd Hiser](#)<sup>1</sup>, [Lauren R Khazem](#)<sup>1</sup>, [Keelin Rademacher](#)<sup>1</sup>, [Jarrod Hay](#)<sup>1</sup>, [AnnaBelle O Bryan](#)<sup>1</sup>, [Craig J Bryan](#)<sup>1</sup>

Affiliations + expand

PMID: 39531231 PMCID: [PMC11558477](#) DOI: [10.1001/jamanetworkopen.2024.45913](#)

# GRANTS SPOTLIGHT



## OUR FACULTY LEAD MANY RELATED RESEARCH GRANTS SUPPORTED BY DIFFERENT FUNDERS, INCLUDING NATIONAL INSTITUTES OF HEALTH AND PRIVATE FOUNDATIONS

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Title: Planning the Next Generation of High Impact Suicide Prevention Priorities

This planning grant will identify opportunities for translating evidence regarding suicide prevention into clinical practice.

Leads: Ed Boudreaux (PI), Dan Mullin

Agency: Four Pines Fund

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Title: AI2Equity: AI Integrating Social Determinants of Health to Advance Health Equity in Cardiovascular Risk Prediction

Leads: (Liu), Ben Gerber

Agency: NIH

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Title: Cardiovascular Digital hHealth Research (CODER) Training Program

Leads: McManus/Gerber

Agency: NIH/NHLBI

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Title: AI2Equity: AI Integrating Social Determinants of Health to Advance Health Equity in Cardiovascular Risk Prediction

Lead: Liu

Agency: NHLBI

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Title: Pathways to Perinatal Mental Health Equity (Pathways)

Leads: N. Byatt, DO, MS, MBA, W. Davis, PhD

Agency: Patient Centered Outcomes Research Institute (PCORI)

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Title: Mindfulness-based Neurofeedback to augment DBT psychotherapy for adults with Borderline Personality Disorder (MIND-BPD)

Leads: Sarah Fineberg, M.D., Ph.D. (PI), Katherine Dixon-Gordon

Agency: NIMH

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Title: Optimizing brief coping skills interventions for suicide prevention: leveraging technology and (Active) novel statistical models for precision for precision mental health

Lead: Craig Bryan

Agency: NIH

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Title: Augmenting massed cognitive processing therapy (CPT) to prevent suicide risk among (Active) patients with PTSD

Lead: Craig Bryan

Agency: Department of Defense

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Title: Smartphone-based wound infection screener by combining thermal images and photographs using deep learning methods

Leads: Agu, co-PIs: Lindsay, Tulu and Strong

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Telehealth to Improve Prevention of Suicide (TIPS) in EDs, R01MH124685

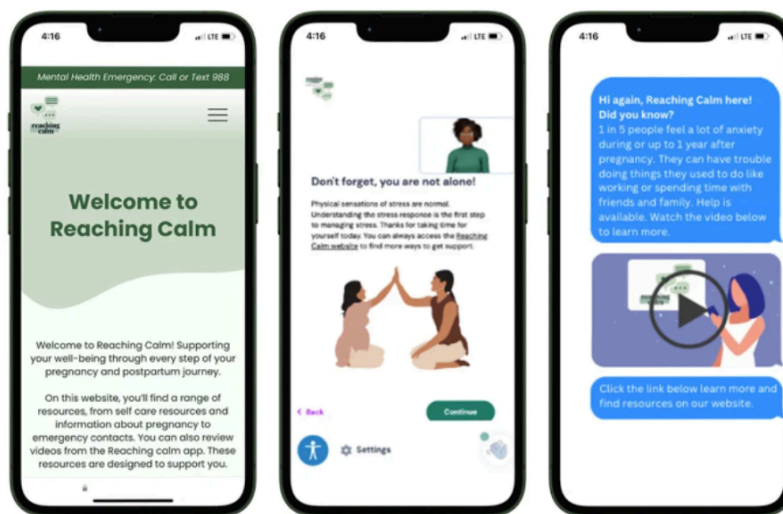
Lead: Edwin Boudreaux; CAPES Collaborators: Rachel Davis-Martin, Celine Larkin, Feifan Liu

Agency: NIMH

# PILOT PROJECTS FUNDED

## BETA-TESTING REACHING CALM: EXPLORING DIGITAL APPROACHES TO ADDRESS SUICIDE RISK IN OBSTETRIC SETTINGS

Lead: Martha Zimmermann (University of Massachusetts Chan Medical School);  
Collaborators: Anna Whelan; Nancy Byatt; Lourah Kelly; Edwin Boudreaux  
(University of Massachusetts Chan Medical School); Consultant: Bengisu Tulu  
(WPI)



Reaching Calm is a multicomponent digital intervention to prevent perinatal anxiety disorders in obstetric settings. Reaching Calm includes a 1) digital Anxiety Sensitivity Intervention, 2) obstetric professional training, and 3) implementation protocol to integrate anxiety prevention into the obstetric workflow. In this pilot project, we will adapt Reaching Calm to address suicide risk by using a community-engaged, user-centered design approach to integrate a Computerized Adaptive Test (CAT) into the digital intervention. We will then beta-test Reaching Calm in an obstetric clinic with 30 perinatal patients. We will use surveys, interviews, and focus groups to explore the acceptability and feasibility of remote suicide risk assessment and intervention with patients and obstetric professionals.



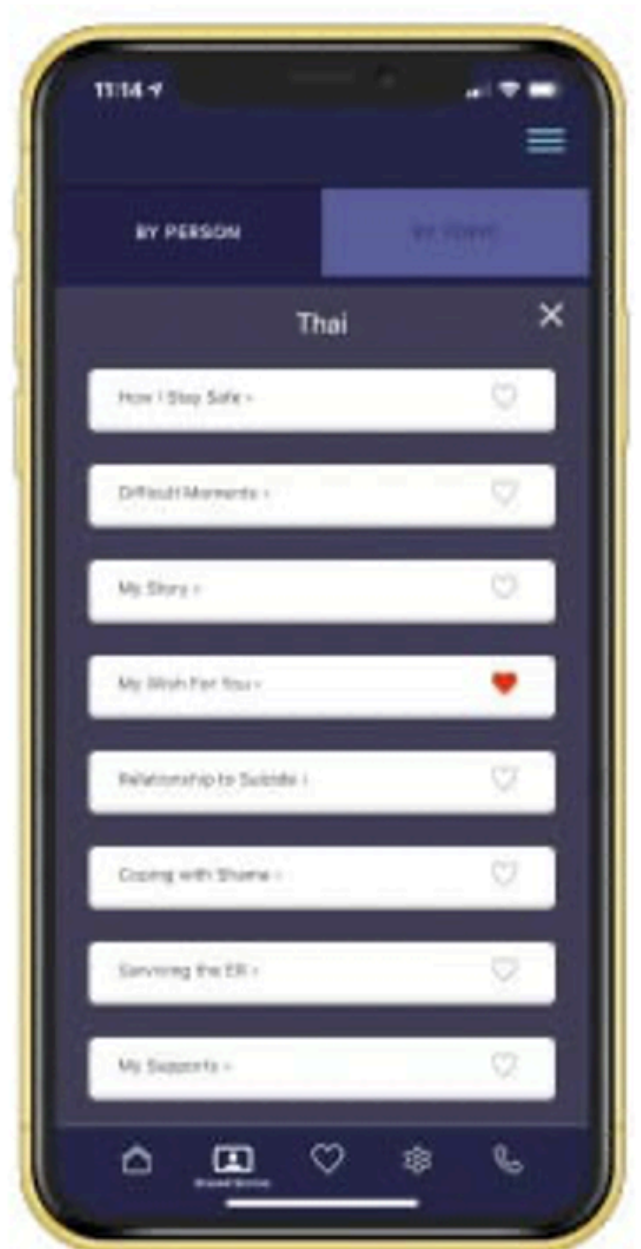
# ASSIST: ADVANCING STUDENT SUICIDE INTERVENTIONS WITH SCALABLE TECHNOLOGIES

Lead: Katherine Dixon-Gordon (University of Massachusetts Amherst);

Collaborators: Brooke Ammerman (U Wisconsin Madison); Genesis Vergara (UMass Amherst); Linda Dimeff (Jaspr Health)

Mobile interventions like Jaspr increase access to evidence-informed suicide care, yet there are barriers to college students' use of digital health technologies. We aim to integrate the Jaspr intervention in college settings using a Hybrid Type I Effectiveness-Implementation design, using human-in-the-loop augmentations (e.g., motivational interviewing principles, personalization, and personal light-touch follow-ups) to improve user experience and engagement (Jaspr+).

First, we will explore barriers and facilitators of adoption of Jaspr+ in college contexts by interviewing college healthcare staff, administrators, and students with histories of suicidal thoughts and/or behaviors. Next, we will compare Jaspr vs. Jaspr+ in a randomized controlled trial of 50 students. Lastly, we will assess the overall effectiveness of Jaspr across conditions on preliminary effectiveness outcomes and potential mechanisms (coping skills, self-stigma).



# CAPACITY BUILDING: SCHOLARS

## ESTABLISHED SCHOLAR



**BENJAMIN NEPHEW,  
PHD**

**Dr. Nephew's** current focus is on applying machine learning with an array of biopsychosocial data from a clinical trial to predict the response to a mindfulness intervention for chronic low back pain. He is also involved in a project using machine learning to predict anxiety, depression, and suicidality in middle and high school students, and an associated initiative is exploring the impact of social media on youth mental health.

Dr. Nephew works with Dean Jean King at Worcester Polytechnic Institute (WPI). Their program of research is focused on identifying and studying neurobehavioral mechanisms of mental illness and developing effective interventions. Recent projects include using functional MRI (fMRI) to identify the neural correlates of mindfulness-based stress reduction as part of a stage IIa randomized clinical trial, and using fMRI data combined with related clinical measures to develop machine learning based early predictors of severe depression and suicidality. He developed a transgenerational social stress based rodent model of postpartum depression/anxiety, and related clinical work explores the role of behavioral hormones, discrimination, and epigenetic changes in postpartum depression/anxiety.

## EMERGING SCHOLARS



**NICHOLAS JOSSELYN,  
MA, MS**

**Nicholas** is a Research Assistant and PhD Candidate at Worcester Polytechnic Institute (WPI) and UMass Chan Medical School Collaborator working with Elke Rundensteiner of CAPES. He also collaborates with Dr. Feifan Liu on the CAPES ADAPT project for identifying individuals at risk of suicide using machine learning techniques. Nicholas has a BA in Physics from Wheaton College in Norton, MA and a MS in Data Science from WPI. He has a passion for applying machine and deep learning techniques to solve real-world problems, specifically in the healthcare domain.



**RICHARD LOPEZ, PHD**

**Dr. Lopez** is a social neuroscientist and Assistant Professor of Psychology and Neuroscience at Worcester Polytechnic Institute (WPI). He investigates the psychological and neural mechanisms underlying emotion regulation to improve health and wellbeing in daily life. His Social Neuroscience of Affective Processes (SNAP) Lab at WPI develops personalized, psychologically informed interventions aimed at improving young people's mental health. Recently, the SNAP Lab has identified psychological factors linked to social media use that could be targeted in interventions to reduce anxiety and depression. As a CAPES scholar, Dr. Lopez is eager to expand his research program, collaborating with clinicians to enhance understanding of suicide prediction and prevention, with a particular focus on early, technology-based intervention strategies.

## EMERGING SCHOLARS



**KATHRYN SABELLA,  
PHD**

**Dr. Sabella** is an Assistant Professor at UMass Chan Medical School in the Department of Psychiatry and Deputy Director of the Implementation Science and Practice Advances Research Center (iSPARC) and Director of the Transitions to Adulthood Center for Research. She is one of only a few national scholars in young adult mental health and has emerged as one of the leading experts in the field. Her research employs qualitative and quantitative methods and community based participatory methods to a) create new knowledge about the needs and experiences of young adults with serious mental health conditions, and b) apply that knowledge to the development, testing, and implementation of age-appropriate and culturally appealing evidence-based practices that can improve the lives of these young adults. She is Co-PI of the Center for Community Inclusion and Reflective Collaboration that seeks to improve community participation outcomes among young adults with mental health conditions from backgrounds that have been marginalized (NIDILRR/ACL/HHS# 90RTCP0010).



**XIHAN YANG, PHD**

**Dr. Yang** is as a Postdoctoral Fellow at the Family Resilience and Child Development (FRCD) lab at the iSPARC, working under Dr. Shaobing Su. Her research focuses on intersectional effects of neurodiversity and cultural diversity. With practical experiences working at the special education field and with the immigrant population, she prioritizes culturally responsive research methodologies and are sensitive to the cultural contexts of participants. She intends to explore the adaptations of materials and technologies to make them more accessible and appropriate for marginalized populations with different cultural backgrounds.

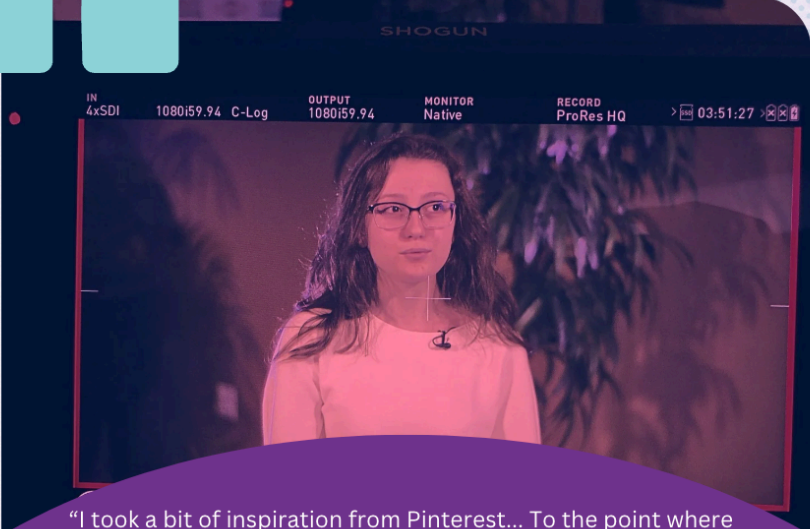


## CAPES INTERN



**ARBA KAMBERI**

**Arba** is an undergraduate intern working with the DAnCE unit. Arba brings thoughtful and creative approach to designing social media content for DAnCE, drawing inspiration from visual platforms to develop engaging and cohesive materials




“I took a bit of inspiration from Pinterest... To the point where I *only* wanted to work on designing these social media posts. The colors used throughout are supposed to be reminiscent of the CAPES logo. I feel like the colors go super well together and they're pretty relaxing. I'm so thankful that I get to help out with DAnCE. It means the world.”

**Arba Kamberi**  
Undergraduate Intern



**CAPES**



# **CAPACITY BUILDING: TRAINING, EDUCATION AND CURRICULUM BUILDING**

## **OUR FACULTY ALSO SERVE AS EDUCATORS IN ACADEMIC AND COMMUNITY SETTINGS**

### **ED BOUDREAUX**

- Massachusetts Dept. of Public Health's Annual Suicide Prevention Conference. Workshop: Selecting Suicide Risk Screening & Assessment Tools. Norwood, MA.
- Massachusetts Dept. of Public Health's Annual Suicide Prevention Conference. Workshop: Evidence Based Intervention: Overview of Safety Planning for Suicidal Crisis. Norwood, MA.
- Children's Hospital Suicide Prevention Core; Aaron Bailey Memories Suicide Prevention Lecture. University of Colorado School of Medicine. Aurora, Colorado.
- Suicide Care Pathway Reflections & Looking Ahead: Learnings, Challenges & Common Themes across Vermont EDs. Vermont Program for Quality in Health Care, Inc. Suicide Prevention in Emergency Departments Quality Improvement Initiative Networking meeting. Virtual.
- Recognizing and Managing Suicide Risk in Healthcare Settings: Training the Trainers. Rutgers Health Graduate Medical Education Grand Rounds. Virtual.
- Creating a System of Safety: Advancing Suicide Prevention in Health Systems. Rutgers Health Promotion of Well Being Grand Rounds. Virtual.
- The System of Safety (SOS): Advancing Suicide Prevention in Health Systems Keynote speaker, Consortium for Research innovation in Suicide Prevention (CRISP) Symposium and the CRISP T32 Training Program in Suicide Prevention. Butler Hospital, Providence, RI.
- Applying Case Formulation Strategies to System Formulation: Application for Suicide Prevention in the Emergency Department. Rutgers School of Public Health's Suicide Prevention and Research Collaboratory (SPARC) Seminar. Virtual.
- Safe and Practical Suicide Prevention in Healthcare Settings: Fulfilling NPSG 15 Requirements. Presented to The Joint Commission on behalf of NIH/NIMH (National Institute of Health/National Institute of Mental Health).

## RACHEL DAVIS-MARTIN

- Assessment and Management of Suicide Risk (AMSR) trainings, conducted 2 in person trainings
- Safety Planning Intervention Fundamentals, conducted several virtual and in person trainings on the Stanley Brown SPI for community and school settings.
- Collaborative Approaches to Safety Planning, working with the MA Department of Mental Health I created and conducted 5 trainings on collaborative approaches to gathering information on suicide risk and incorporating that information into safety plans.
- Safety Planning in 988 Crisis Call centers, working with the MA Department of Public Health created and conducted trainings for the 5 988 Crisis Call centers on safety planning within crisis call settings.

## LOURAH KELLY

- Have completed two full-day trainings to clinicians in the field using the Assessing and Managing Suicide Risk in Outpatient Behavioral Health Settings curriculum
- Have also presented at the annual Massachusetts Suicide Prevention Conference, focused on screening and assessing suicide risk among adults.

## FEIFAN LIU

- Research informatics course on Natural Language Processing for clinical informatics fellows.
- Training lecture "Machine learning for clinical predictive modeling" for Vietnam delegation.
- Presentation to a delegation from Hallym University in Korea "Applying AI and Machine Learning for Healthcare".
- Webinar on "Machine Learning and its Applications in Healthcare" at ForHealth Consulting.

## SARAH ARIAS

- Presented webinar on Considerations for Implementing Caring Contact Letters for Reducing Suicide Risk and Re-Engaging Patients in Care Post-Jail Release; Description: Caring Contacts is an evidence-based approach that has effectively and cost-effectively reduced suicide deaths, suicide attempts, and suicidal ideation in emergency department (ED), inpatient, and veteran populations.

## **CAMILLE NEBEKER**

- Web based training that focuses on how to use the Digital Health decision support framework and checklist is available on the ReCODE Health website and is accessible to the CAPES community

## **CRAIG BRYAN**

- Trainings on BCBT and CRP for suicide prevention:
  - Web-based provider training for Brief Cognitive Behavior Therapy (BCBT) for suicide prevention
  - Piloting a brief cognitive-behavioral therapy (BCBT) group intervention for suicidal behavior among active duty military personnel

## **ERIN REILLY**

- Reilly, E.D. (2024, September 25). Virtual reality: Usable, useful, and supporting hope in our veteran community [Webinar]. VHA XR Community of Practice Meeting, Virtual.

## **LINDA DIMEFF**

- CEU training for behavioral health staff, partnerships with SPCNY to improve behavioral health care in the ED with technology.
- Workshop at Alaska Suicide Prevention conference focusing on Jaspr; about 100 people in attendance
- Sponsored and coordinated Leadership Institute National Behavioral Health Forum for Behavioral Health Executives. Focused on best practices for suicide care in emergency department. Included high level review of Jaspr and data to date.

## **MARIAN BETZ**

- Hosted military firearm suicide prevention summit

## **MICHAEL ALLEN**

- Aaron Kent Bailey Memorial Suicide Prevention Lecture University of Colorado Department of Psychiatry Grand Rounds The System of Safety (SOS): Advancing Suicide Prevention in Health Systems Edwin D. Boudreaux, PhD 2.

# CAPACITY BUILDING: WORKSHOPS

## CAPES SUMMIT 2024

CAPES hosted a summit on Wednesday, September 25th, 2024 attended by 158 people. We had outstanding ratings, with **88%** of respondents rated the summit as "Excellent" or "Very Good." **100%** of attendees felt that the content of the Summit met their expectations.

### HERE IS WHAT SOME OF OUR ATTENDEES TOLD US ABOUT THE SUMMIT:

*As someone without much prior information on CAPES, the Executive Summary was helpful and informative. Susan Stefan was a great starter and a great speaker. Her presentation was really moving and I felt like she really had an important message. The section on person-centered operational improvement was very informative and interesting to listen to.*

*Lots of resources were provided on where to find help for yourself and others. CAPES website is extremely well set up and easy to navigate to find the information you need.*

*Excellent set of interdisciplinary and high-impact talks. I appreciated the focus on real-world effectiveness and the speakers' transparency about challenges they have had when conducting their studies and/or implementing policy changes.*

*JASPR AND CREID: JASPR's integration of personalized support for individuals in crisis, combined with evidence-based practices, is truly groundbreaking. I also found the CREID framework's combination of RCTs and real-world studies to be a powerful approach in developing generalizable suicide prevention strategies that will have a broader real-world impact.*



# LEVERAGING ARTIFICIAL INTELLIGENCE (AI) FOR SUICIDE PREVENTION

In December 2024, CAPES MLU hosted a virtual webinar titled "Leveraging Artificial Intelligence (AI) for Suicide Prevention: A Multi-Faceted Approach to Mental Health Support." Led by Prashanth Brahmandam from Backpack Healthcare, the session explored the transformative role of AI and data analytics in suicide prevention efforts.

The presentation highlighted the potential of AI-driven insights to detect at-risk individuals, optimize timely interventions, and strengthen care coordination. Key topics included the integration of diverse data sources—such as behavioral patterns, language indicators, and clinical histories—along with discussions on system integration, data privacy, security concerns, and risk mitigation strategies.

This training contributed to CAPES' ongoing mission to enhance suicide prevention practices through innovative, data-driven solutions, equipping stakeholders with critical knowledge on leveraging AI for mental health support.

CAPES MLU Presents:

## Leveraging Artificial Intelligence (AI) for Suicide Prevention:

*A Multi-Faceted Approach to Mental Health Support*

Wednesday,  
December 18, 2024  
2:00 - 3:00 PM ET

Virtual Webinar  
via Zoom

**SPEAKER:**  
**PRASHANTH BRAHMANDAM**  
Backpack Healthcare

**DESCRIPTION OF TALK:**

Exploration of data-driven approaches to suicide prevention has taken on increased urgency. This presentation delves into the potential of AI and data analytics to transform suicide prevention efforts, leveraging diverse data sources such as behavioral patterns, language indicators, and clinical histories. Through AI-driven insights, it's possible to detect at-risk individuals, optimize timely interventions, and strengthen care coordination. Key topics include the necessary ecosystem for effective implementation, system integration requirements, data privacy and security concerns, and risk mitigation strategies.

**REGISTER HERE:**

**CAPES**  
Center for Accelerating Progress to End Suicide

# PDU SPONSORED EVENT: WHAT INSIGHTS DO EHR AUDIT LOGS HOLD? ADVANCING USABILITY AND CLINICIAN EMPOWERMENT

**WHAT INSIGHTS DO EHR AUDIT LOGS HOLD? ADVANCING USABILITY AND CLINICIAN EMPOWERMENT VIRTUAL WORKSHOP**

**Date:** February 18th, 2025

**Location:** Virtual Zoom Webinar

**Time:** 04:00 - 05:00 PM ET

**SAIF KHAIRAT, PHD, MPH, FAMIA**

**DESCRIPTION OF TALK**

Audit logs from electronic health records (EHRs) hold untapped potential for understanding user behavior, system interactions, and workflow challenges in healthcare. Audit logs can be harnessed to improve usability and optimize clinician workflows, drawing from recent studies on identifying bottlenecks, reducing cognitive load, and enhancing user experience. This presentation will share insights, methodologies, and findings from research, offering a roadmap for actionable improvements in EHR design and evaluation.

**REGISTER HERE:**

**CAPES**  
Center for Accelerating Promises to End Suffering

Dr. Saif Khairat is the Beerstecher-Blackwell Distinguished Professor at UNC-Chapel Hill, leading the NIH-funded Center for Virtual Care Value and Equity (ViVE). An expert in digital health, he has authored over 100 publications, secured \$7.5M in research grants, and advises the WHO on non-communicable diseases. Dr. Khairat holds a PhD in Health Informatics and degrees in Computer Science and Public Health.

Audit logs from electronic health records (EHRs) held untapped potential for understanding user behavior, system interactions, and workflow challenges in healthcare. This talk explored how audit logs could be harnessed to improve usability and optimize clinician workflows, drawing from recent studies on identifying bottlenecks, reducing cognitive load, and enhancing user experience. By leveraging audit log analytics, researchers moved beyond static usability evaluations to create adaptive systems that met the dynamic needs of healthcare providers. This presentation shared insights, methodologies, and findings from research, offering a roadmap for actionable improvements in EHR design and evaluation.

# USER EXPERIENCE SYMPOSIUM 2024

On November 20th, 2024, the 6th Annual UX Symposium (UXSYM) was held at WPI in Worcester, MA and supported by Person Design Unit (PDU). The User Experience Symposium (UXSYM) 2024 provided a platform that allowed experts from industry and academia to come together to share their experiences and shape the future of UX research. That theme focused on harnessing the power of AI to create innovative and valuable user experiences. The event provided a unique opportunity to explore cutting-edge research and participate in discussions about the future of AI and UX with leading innovators in the field.



**UXSYM 2024** <https://uxsym.org/>  
**AI & User-Centered Innovations**  
Nov. 20, 8:30am-6:00pm, WPI Rubin Campus Center  
100 Institute Road, Worcester MA

**About UXSYM**  
As a bridge between academia and industry, UXSYM aims to create a rich and dynamic platform where professionals and researchers can learn from each other, exchange ideas, and shape the future of AI-driven user-centered innovations.

**UXDM Lab**  
WPI THE BUSINESS SCHOOL

**About UXDM Lab**  
Established in 2011, the User Experience and Decision Making (UXDM) Lab conducts research with significant contributions to theory and practice in user-centered design and product innovation. Recent lab projects include:

- A clinician decision support system enabled with eye-tracking technology for detecting chronic pain experiences through patients' eye movements.
- A surrogate decision aid for supporting family members of patients with severe brain injury in NeuroICU.
- Two suicide prevention apps using persona development to ensure the flexibility of the apps in meeting the core needs of a variety of patients.
- An app, FoodGlance, for translating nutrition fact labels into simple graphical feedback (thumbs up or thumbs down) based on users' dietary needs.
- A process model driven by UX principles for developing AI-enabled, user-centered service robots that address employees' socio-technical needs.

**UX Consortium**  
Be at the vanguard of product innovation  
Become a partner in enabling advances in UX research and education that are necessary for successful product innovation in our evolving digital economy.  
Contact: [UXDM@wpi.edu](mailto:UXDM@wpi.edu)

Dr. Bill Albert, Founder and Principal of Global UX Partners, delivered this year's keynote address. Known for his exceptional leadership in UX and product innovation, Dr. Albert presented "How AI and Other Emerging Technologies Help (and Hurt) UX Research and Product Innovation," which was one of the most insightful highlights of the symposium.

# FEATURED FACULTY AWARDS



**HERE ARE JUST A FEW OF THE AWARDS  
RECEIVED BY OUR RENOWNED FACULTY:**

## **MARIAN BETZ**

Inducted into National Academy of Medicine

## **KATHERINE DIXON GORDON**

2024 Distinguished Woman Scholar, University of Victoria, Victoria, BC

## **SOUSSAN DJAMASBI**

Best Paper in the AIS Transactions on Human Computer Interaction (THCI) journal in 2023: Alrefaei, D., Djasmasbi, S., & Strong, D. (2023). Chronic Pain and Eye Movements: A NeuroIS Approach to Designing Smart Clinical Decision Support Systems. AIS Transactions on Human-Computer Interaction, 15(3), 268-291.DOI: 10.17705/1thci.00191

## **ELKE RUNDENSTEINER**

IEEE Test-of-Time Award for Groundbreaking Visual Data Analytics Work, Worcester Polytechnic Institute (WPI)

## **DOMINIC DENNING**

Top paper cited in Suicide and Life threatening behavior, Associations of suicide risk with emotional reactivity, dysregulation, and eating disorder treatment outcomes

## FEATURED FACULTY CATALYZING TECHNOLOGICAL CHANGE



**ADRIAN ZAI, MD,  
PHD, MPH**

Dr. Zai is the Director of the Research Informatics Core (RIC) at UMass Chan Medical School, which develops and implements technology that address critical health care challenges. The RIC leads many initiatives that leverage informatics and artificial intelligence to improve research, care delivery, and operational efficiency. The RIC also develops implementing technologies that address critical healthcare challenges beyond the immediate CAPES project.

The RIC demonstrates its commitment to driving innovation in healthcare informatics, supporting research, enhancing care delivery, and addressing pressing public health issues including:

- Worcester Integrated Health Data Exchange (WIHDE): A centralized platform integrating data from multiple healthcare systems to enable secure sharing, support regional research, and improve community health outcomes.
- LLMs for Informed Consent: Enhances readability and comprehension of consent documents, ensuring ethical standards and participant engagement in clinical studies.
- Platform for Learning Health System at UMass (PLUM): A cloud-based infrastructure integrating clinical data, AI tools, and research resources to support continuous learning, secure data management, and cross-domain collaboration.
- UMass AI Assurance Lab: Developed with MITRE to validate AI models for fairness, safety, and transparency in healthcare through bias detection, human-in-the-loop testing, and performance monitoring.



# **FACULTY LEADERSHIP ROLES**

**OUR FACULTY ARE LEADERS IN THE FIELD,  
SERVING AS DIRECTORS, ADVISORS, REVIEWERS,  
AND LEADING ORGANIZATIONAL MEMBERS.  
HERE ARE JUST A FEW EXAMPLES:**

## **ED BOUDREAUX**

- Nationwide Children's Hospital Center for Accelerating Suicide Prevention in Real-World Settings (ASPIRES): Scientific Advisory Board Member
- Innovation in Suicide Prevention Implementation Research (INSPIRE) Center at the University of Pennsylvania: External Advisory Board Member
- American Foundation for Suicide Prevention (AFSP): Scientific Board Member and Policy Council Member.
- UVMHN Suicide Treatment Program Advisory Board: Provide technical assistance and consultation related to building a suicide-focused care center.
- Epic Suicide Prevention Brain: Trust Member

## **RACHEL DAVIS MARTIN**

- Society of Behavioral Medicine: Member

## **LOURAH KELLY**

- Association of Behavioral and Cognitive Therapies - Suicide and Self-Injury Special Interest Group: Member

## **DANIEL MULLEN**

- Collaborative Family Healthcare Association: Member of Board of Directors

## **ANTHONY ROTHCHILD**

- American Foundation for Suicide Prevention: Grant Reviewer

## **KATHERINE DIXON-GORDON**

- World DBT Association Secretary, North American Society for the Study of Personality Disorders Treasurer, ABCT Personality/Personality Disorders Special Interest Group: Founding Clerk

## **SARAH ARIAS**

- American Medical Informatics Association (AMIA) Natural Language Processing (NLP) Working Group: Member

## **CAMILLE NEBEKER**

- Society of Behavioral Medicine speaking about digital health research ethics: Member
- Strategic Advisory Committee for the Digital Medicine Society: Member

## **CRAIG BRYAN**

- JED Foundation Suicide Prevention Advisory Committee, SAMHSA National Advisory Council

## **ERIN REILLY**

- "MADE FOR VA: ImmersiVA" Workgroup: Member

## **LINDA DIMEFF**

- ZeroSuicide, NIMH, SAMHSA ; ABCT

## MARIAN BETZ

- Healthcare Coalition for Firearm Injury Prevention (includes focus on suicide)
- AMA Taskforce on Firearm Injury Prevention (includes suicide)

## MICHAEL ALLEN

- American Association for Emergency Psychiatry: Board of Directors
- American Foundation for Suicide Prevention: Scientific Advisor
- University of Colorado Brain and Behavior Innovation Center National Steering Committee, 988 Suicide and Crisis Lifeline: Strategic Advisor

## RICHARD LOPEZ

- Social Affective Neuroscience Society: Conference program committee and reviewer of abstracts

## DOMINIC DENNING

- Personality and Personality Disorder Special Interest Group through the Association of Behavioral and Cognitive Therapies: Student Representative



# **POLICY INFLUENCE, ADVOCACY, AND TECHNICAL ASSISTANCE**

**OUR FACULTY USE THEIR EXPERTISE TO  
PROMOTE AND ADVOCATE POLICY CHANGES  
AND SERVE AS CONSULTANTS TO LOCAL,  
STATE, AND FEDERAL ORGANIZATIONS.**

## **ED BOUDREAUX**

- AFSP Advocacy Forum; Public Policy Council, Washington DC.
- Centers for Medicare & Medicaid Services. FY25 Payment Policies under the Physician Fee Scheduled and Other Changes to Part B Payment and Coverage Policies; Medicare Shared Savings Program Requirements; Medicare Prescription Drug Inflation Rebate Program; and Medicare Overpayments.
- NIMH, NAASP: Conducting Research with Participants at Elevated Risk for Suicide: Considerations for Researchers. NIMH Influence Evaluate Human Subjects protections, Suicide Prevention.
- Massachusetts Department of Public Health, 988 and Safety Planning Project. Provide consultation related to improving safety planning within 988 Crisis Centers in MA.
- Model Protocol for Health Care Facilities-Vermont Act 56. Provided consultation, review, and editing of a recommendation to the VT legislature on model protocols for suicide related care.

## **CRAIG BRYAN**

- Defense Science Study Group
- SAMHSA National Advisory Council

## **MARIAN BETZ**

- Colorado and federal efforts related to voluntary out of home firearm storage for suicide prevention
- Engaged in analysis of use of Extreme Risk Protection Orders for suicide prevention

## **MICHAEL ALLEN**

- Technical Expert Panel, SAMHSA Evidence Based Practice Resource Consensus Report, Improving 911 and 988 Interoperability.



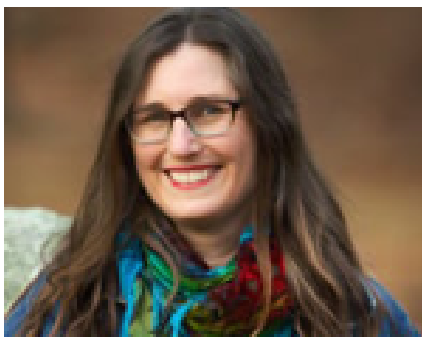


# COMMUNITY COLLABORATIONS SPOTLIGHT

## LIVED EXPERIENCE ADVISORY BOARD

Our Lived Experience Advisory Board includes five people who all have personal lived experience with suicidal thoughts and/or attempts and with the healthcare system, as well as two co-facilitators, Rick Strait of Education Development Center and Lourah Kelly, of UMass Chan Medical School. Dr. Kelly has familial lived experience and is a suicide loss survivor. See Dr. Kelly's bio on the CAPES faculty page for more information on her role.

All CAPES projects consult with the Lived Experience Advisory Board at least once. We seek to align all projects with the needs of people with lived experience, from how we approach patients for recruitment to how we might communicate about digital tools and machine learning algorithms to patients.



**ERIN GOODMAN**  
**(SHE/HER)**

Erin Goodman began with the CAPES Lived Experience Advisory Board in June 2024. She is a Behavioral Health Training Supervisor at Gateway Healthcare in Rhode Island and faculty at the Zero Suicide Institute. Erin served previously as Program Director and lead facilitator of the Certified Peer Recovery Specialist (CPRS) Training at the Parent Support Network of Rhode Island.



**JENNIFER GLYNN  
(SHE/HER)**

Jenni Glynn joined the CAPES lived experience board in February 2024, as someone who has lived with behavioral health challenges and lost loved ones to suicide. Jenni has been a long time advocate for empowering individuals impacted by behavioral health issues. Prior to 2016, Jenni worked in Massachusetts based politics and public policy and has continued this work since earning a master's degree from Lesley University's School of Counseling Psychology. Outside of her professional experience, she sits on the organizing committee for Friends for Depression Awareness, writes free lance articles on behavioral health issues, including the publication of her work as a chapter in a book edited by the late Dr. John Gunderson and Dr. Peri Hoffman. In 2021, her personal story was included in the McLean Hospital Deconstructing Stigma campaign. She has a Cavalier King Charles Spaniel named Atticus Finch.

Leah Harris, MA, started with the CAPES Lived Experience Advisory Board in June 2024, is faculty at the Zero Suicide Institute, and possesses twenty years of experience writing, speaking, and training on trauma, mental health, and suicide prevention. They are self-employed as a writer, facilitator, and advocate — and is especially involved in liberation movements created by and for mad, mentally ill, neurodivergent, and disabled people. They have worked previously in SAMSHA's National Center for Trauma Informed Care, The National Coalition for Mental Health Recovery, and the National Empowerment Center.



**LEAH HARRIS  
(THEY/SHE)**



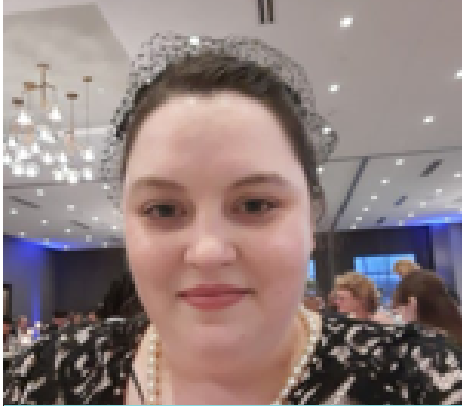
**DEQUINCY  
LEZINE, PHD  
(HE/HIM)**

DeQuincy Lezine, PhD, began with the CAPES Lived Experience Advisory Board in June 2024. He is faculty at the Zero Suicide Institute and Director of the Lived Experience Academy and CEO of Prevention Communities, which focus on post-traumatic growth, life promotion, and suicide prevention. He leads Beyond Recovery: Post-Traumatic Growth and Post-Suicidal Growth through consulting, public speaking, and online workshops. Dr. Meiffren-Lezine was the inaugural chair of the Attempt Survivor and Lived Experience Division at the American Association of Suicidology and was a co-chair of the Consumer-Survivor Subcommittee for the 988 Suicide & Crisis Lifeline.

Rick Strait is our co-facilitator for the CAPES Lived Experience Advisory Board, starting in February 2024. He is a licensed professional counselor and certified substance use disorder professional. He is a board member with United Suicide Survivors International and Missouri Association of Treatment Court Professionals. He has helped organize multiple suicide awareness conferences in Missouri. Rick's unique ability to bridge his knowledge and his lived experience provides him with a depth of understanding and practical application to better serve the consumers and the programs he works with.



**RICK STRAIT  
(HE/HIM)**



**T'LEAH SUMMERS  
(SHE/HER)**

T'Leah Summers began with the CAPES Lived Experience Advisory Board in February 2024. She is a UMass Lowell Student in Information Technology and Psychology. T'Leah is also interested in other opportunities for advocacy while completing her technical training at UMass Lowell to turn advocacy into a career in research as a Clinical Data Analyst. She has used digital health tools in her own recovery and has also spoken to local colleges about using resources on campus to support mental health and be successful in school and beyond.

*“As a person who has lived with ideation as long as I can remember, it’s so good to see the work being done to simply humanize my issues and the care provided to me in a time of crisis. Today I listened to a room of doctors, psychologists, lawyers, and programmers talk passionately about the broken system that just pushes suicidal patients through the incident and back out the door, and what they need to do and are trying to do not only to help us get through the crisis, but through our lives as people who have these intrusive thoughts and have to deal with them regularly. Until today, I’d only really seen a sliver of what CAPES was doing, but today I’m blown away by the compassion flowing through that room. This is academia as it should be.”*



# STAFF SPOTLIGHT

Get to  
Know

Basheer  
Rahmoun, M.D



**Mhd Basheer Rahmoun, M.D.** is an accomplished research program manager with over nine years of experience in clinical research, project management, and healthcare operations. Dr. Rahmoun leads multiple implementation research projects focused on suicide prevention in Emergency Department; he is currently serving as the sr. operation manager for CAPES and co-managing the center's signature project "Jaspr". In this capacity, he oversees the administrative and operational functions of the center, ensuring seamless coordination across various projects and initiatives, and the day-to-day activities of subject enrollments. Dr. Rahmoun holds a medical degree from Damascus University, trained in Neurology, and completed a post-doctoral fellowship in clinical research at the Massachusetts College of Pharmacy and Health Sciences (MCPHS). His career includes extensive experience in managing large-scale behavioral health initiatives, supervising research teams, and ensuring compliance with regulatory protocols. Beyond his research and healthcare leadership, Dr. Rahmoun has been actively involved in humanitarian efforts through the International Red Cross and Red Crescent Movement, where he led disaster response and medical preparedness initiatives in his home country. His commitment to improving patient outcomes and advancing mental health research continues to shape his work in clinical innovation and suicide prevention.

# SOCIAL MEDIA HIGHLIGHTS

## FACEBOOK

NEW FANS: 47

IMPRESSIONS: 5.1K

REACTIONS: 1.2K

REACH: 2.9K

PAGE & POST ENGAGEMENTS: 1.7K

ENGAGEMENT RATE



19.5%



## TWITTER/X



- 168 new followers
- 140 tweets
- 177 retweets
- 38K impressions
- 1.1K engagements
- 112 replies
- 584 likes



## INSTAGRAM

- 182 new followers
- 76 posts
- 17.1K impressions
- 9.8K post reach
- 857 likes
- 71 comments



## LINKED IN

NEW FOLLOWERS: 253

POSTS: 98

IMPRESSIONS: 18.4K

LIKES: 751

COMMENTS: 86

SHARES: 130

# FOLLOW US

Follow CAPES on Social Media for more posts



**INSTAGRAM:**  
**@CAPESSUICIDEPREVENTION**



**X: @CAPESUICIDEPREV**



**LINKEDIN:**  
**CAPESSUICIDEPREVENTION**



**FACEBOOK:**  
**@CAPESSUICIDEPREVENTION**



**BLUE SKY:**  
**@CAPESSUICIDEPREV.BSKY.SOCIAL**

**CAPES WEBSITE:**



**The Center for Accelerating Practices to End Suicide (CAPES)**

The website of the Center for Accelerating Practices to End Suicide (CAPES) at UMass Chan Medical School.

# QUARTERLY NEWSLETTERS



CAPES News

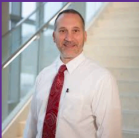
AFSP Central MA

ABCT Convention

Training

## CAPES Monthly Newsletter

### Word from Our Directors



Welcome to the fifth quarterly newsletter from the NIMH-funded Center for Accelerating Practices to End Suicide (CAPES) at UMass Chan Medical School! We are excited to share news and announcements from August to October 2024. We've hosted our summer Methods and Administrative Retreats, our annual Fall Summit, participated in the Darkness Walk at Polar Park, continued hosting monthly Lived Experience Advisory Board meetings, made significant progress on all research projects, and we're looking forward to an exciting conference and suicide prevention training season this Fall and Winter.



Sincerely,  
Ed Boudreaux, PhD and Catarina Kiefe, PhD, MD Directors, Center for Accelerating Practices to End Suicide

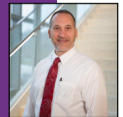


ISSUE 4 | JULY 2024

> Updates from the Center for Accelerating Practices to End Suicide (CAPES)

### A WORD FROM OUR DIRECTORS

Welcome to the fourth CAPES quarterly newsletter! We are excited to share news and announcements from April to July 2024 from the NIMH-funded Center for Accelerating Practices to End Suicide (CAPES) at UMass Chan Medical School. It's been a busy quarter, with planning fully underway for the Summer Retreat and Fall Summit, an eye tracking workshop hosted by the Person-Centered Design Unit, ongoing monthly Lived Experience Advisory Board meetings available to all CAPES research projects and faculty, and suicide prevention trainings. We look forward to seeing you all at the Spring Retreat and Fall Summit!



Sincerely,

Ed Boudreaux, PhD and Catarina Kiefe, PhD, MD Directors, Center for Accelerating Practices to End Suicide

### New Suicide and Translation Journal Articles

> Check out this study by Larkin, C., Kiefe, C. I., Morena, A. L., Rahmoun, M. B., Lazar, P., Sefair, A. V., & Boudreaux, E. D. (2024). Clinician Attitudes Toward Suicide Prevention Practices

### > NEWS THIS QUARTER

The CAPES Website is now LIVE! Check it out for all updates on CAPES projects, connection with other faculty, and resources for researchers, clinicians and healthcare organizations, digital health specialists, and persons impacted by suicide and suicidal thoughts.

The launch of the CAPES signature project started in January 2024 and recruitment is well underway! We are testing clinical and implementation outcomes of Jaspri, a suicide prevention software that can be accessed on a tablet by emergency department (ED) patients, which makes therapeutic use of downtime before a psychiatric evaluation. Patients can download the Jaspri@Home app to their smartphone and use their safety plan and tools after the visit. Look out for the Jaspri research coordinators recruiting in the medical ED and EMH!



Save the Dates for CAPES Summer Retreats! The CAPES Methods Core Retreat is scheduled for Tuesday July 23rd from 8:30AM - 1PM. The Admin Core Retreat is scheduled for July 25th from 8:30AM - 1 PM. Please RSVP via your calendar invite to hear all about CAPES projects and researchers, suggest improvements for CAPES related to networking and DEI efforts, and share ideas for grants and manuscripts!

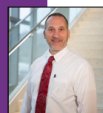


ISSUE 3 | APRIL 2024

> Updates from the Center for Accelerating Practices to End Suicide (CAPES)

### A WORD FROM OUR DIRECTORS

Welcome to the third CAPES quarterly newsletter! We are excited to share news and announcements from the NIMH-funded Center for Accelerating Practices to End Suicide (CAPES) at UMass Chan Medical School. It's been a busy quarter, with planning starting for our Summer Retreat and Fall Summit, our first Lived Experience Advisory Board meeting focused on Jaspri - and now available to all CAPES research projects and faculty, a podcast by Dr. Lourah Kelly on the Emerging Adult Avatar platform. We wish you a happy 2024 and look forward to seeing what the new year brings for our growing Center!



Sincerely,

Ed Boudreaux, PhD and Catarina Kiefe, PhD, MD Directors, Center for Accelerating Practices to End Suicide

### New Suicide and Translation Journal Articles

> Check out this study by Chitavi et al. (2024). Evaluating the prevalence of four recommended practices for suicide prevention following hospital discharge in Joint Commission Journal on Quality and Patient Safety.

> READ MORE

> Check out this study by Cullen et al., (2024). Impact of emergency department safety planning on 30-day mental health service use in Psychiatric Services.

> READ MORE

### > NEWS THIS QUARTER

The launch of the CAPES signature project started in January 2024 and recruitment is well underway! We are testing clinical and implementation outcomes of Jaspri, a suicide prevention software that can be accessed on a tablet by emergency department (ED) patients, which makes therapeutic use of downtime before a psychiatric evaluation. Patients can download the Jaspri@Home app to their smartphone and use their safety plan and tools after the visit.



The CAPES Lived Experience Advisory Board met with the Jaspri team and provided feedback on each element of the Jaspri application and on our Research Coordinator's approach script for inviting participants to learn more about the study and participate. The board gave extensive, detailed feedback on what they liked about Jaspri, including the myriad of coping skill options and representation of persons with lived experience, techniques for ensuring privacy, and potential to reduce stigma and repetition of sensitive questions.

Themes that all technology-based suicide interventions can follow include:

- 1) presenting multiple options for participation and entry of information,
- 2) giving as much choice as possible,
- 3) having security options,
- 4) being transparent in what the intervention will offer, and
- 5) being transparent in what is technology-driven vs managed by a person behind a screen.

Meetings are the second Friday of each month from 230 - 4PM. Contact Lourah Kelly at Lourah.Kelly@umassmed.edu to seek consultation with the Lived Experience Advisory Board. We will also have ad-hoc members with various experiences across settings (acute care, primary care/outpatient, and college settings) based on project needs.



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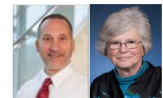


### A Word from our Directors

Welcome to the second CAPES quarterly newsletter! We are excited to share news and announcements from the NIMH-funded Center for Accelerating Practices to End Suicide (CAPES) at UMass Chan Medical School. It's been a busy quarter, with our Signature Project Jaspri kicking off recruitment and our faculty being featured as a research highlight by NIMH. We wish you a happy 2024 and look forward to seeing what the new year brings for our growing Center!

Sincerely,

Ed Boudreaux, PhD and Catarina Kiefe, PhD MD Directors, Center for Accelerating Practices to End Suicide



### News

The soft launch of the CAPES signature project is happening this month! We will be testing clinical and implementation outcomes of Jaspri, a suicide prevention software that can be accessed on a tablet by emergency department patients, which makes therapeutic use of downtime before a psychiatric evaluation. Patients can download the Jaspri@Home app to their smartphone and use their safety plan and tools after the visit.



NIMH highlighted CAPES faculty, who recently published the results of the large Emergency Department Safety Assessment and Follow-Up Evaluation 2 (ED-SAFE 2) trial in JAMA Psychiatry

Read more

Voices of UMass Chan hosted Drs. Boudreaux and Larkin to discuss CAPES, highlighting the importance of compassionate healthcare in preventing suicide

Listen



# CAPES PUBLICATIONS

## 2024

- Aase, D.M., McManimen, S.L., Hay, J., Long, C., & Bryan C.J. (2024). Firearm ownership factors and cognitive functioning: A preliminary study. *Journal of Psychiatric Research*, 200-204.
- AI-READI Consortium. AI-READI: rethinking AI data collection, preparation and sharing in diabetes research and beyond. *Nat Metab* 6, 2210–2212 (2024).  
<https://doi.org/10.1038/s42255-024-01165-x>
- Arash Alavi, Kexin Cha, Delara P Esfarjani, Bhavesh Patel, Jennifer Li Pook Than, Aaron Y Lee, Camille Nebeker, Michael Snyder, Amir Bahmani. Harnessing large language models to uncover insights in diabetes wearable data. Preprint <https://doi.org/10.21203/rs.3.rs-4966049/v1>
- Atifa Sarwar, Abdulsalam Almadani, and Emmanuel O. Agu, 2024. Few-shot meta-learning for pre-symptomatic detection of Covid-19 from limited health tracker data. *Smart Health*, p.100459.
- Ayyaswami V, Subramanian J, Nickerson J, Erban S, Rosano N, McManus DD, Gerber BS, Faro JM. A Clinician and Electronic Health Record Wearable Device Intervention to Increase Physical Activity in Patients With Obesity: Formative Qualitative Study. *JMIR Form Res*. 2024 Sep 2;8:e56962. doi: 10.2196/56962.
- Baker JC, Anestis MD, Meza KA, Mocerri Brooks J, Bletz A, Friedman K, Ho RA, Bryan AO, Bryan CJ, Betz ME. Military spouse and key stakeholder perspectives of effective messaging for United States service members on secure storage of personal firearms: A qualitative study. *Inj Prev* (in press)
- Baker, J. C., Starkey, A., Ammendola, E., Bauder, C. R., Daruwala, S. E., Hiser, J., Khazem, L. R., Rademacher, K.\*, Hay, J., Bryan, A. O., & Bryan, C. J. (2024). Telehealth brief cognitive behavioral therapy for suicide prevention: A randomized clinical trial. *JAMA Network Open*, 7, e2445913.
- Baker, J.C., Cacace, S., Cramer, R.C., Rasmussen, S., Martin, C., May, A.M., Thomsen, C., Bryan, A.O., & Bryan, C.J. (In Press). Entrapment in the Military Context: Factor Structure and Associations with Suicidal Thoughts and Behaviors. *Suicide and Life Threatening Behavior*.
- Banerjee S, Wu Y, Bingham KS, Marino P, Meyers BS, Mulsant BH, Neufeld NH, Oliver LD, Power JD, Rothschild AJ, Sirey JA, Voineskos AN, Whyte EM, Alexopoulos GS, Flint AJ; STOP-PD II Study Group. Trajectories of remitted psychotic depression: identification of predictors of worsening by machine learning. *Psychol Med*. 54:1142-1151, 2024. PMID: 37818656.



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