# CURRICULUM VITAE

**Date of Revision:** April 25, 2023

**Name:** Marc Auerbach MD, MSci

#  Professor, Department of Pediatrics, Section of Emergency Medicine, Clinician-Educator Track, with a secondary appointment in the Department of Emergency Medicine.

**Term:** *Primary:* continuing appointment effective July 1, 2020

 *Secondary:* July 1, 2020-June 30, 2025

**School:** Yale University School of Medicine

**Education:**

BS Biochemistry, Binghamton University, 1998

MD Medicine, University at Buffalo, 2002

MS Clinical Investigation, New York University, 2005

Certificate Yale Advanced Emerging Leaders Program, Yale School of Management, 2019

# Career/Academic Appointments:

2002-05 Pediatric Resident, NYU Medical Center, New York, NY

2005-06 Pediatric Chief-Resident, NYU Medical Center, New York, NY

2006-09 Fellow, Pediatric Emergency Medicine, Bellevue Hospital, New York, NY

2006-09 Clinical Instructor, Department of Pediatrics, NYU Medical Center, New York, NY

2007-09 Clinical Instructor, Department of Pediatrics, Long Island Jewish Medical Center, NY

2008-09 Clinical Instructor, Department of Pediatrics, Weill-Cornell Medical College, NY

2009-12 Assistant Professor, Department of Pediatrics, Yale University School of Medicine, CT

2012-15 Assistant Professor, Department of Pediatrics, Yale University School of Medicine, CT

2015-2020 Associate Professor, Department of Pediatrics, Yale University School of Medicine, CT

2015-2020 Associate Professor, Department of Emergency Medicine, Yale University School of Medicine, New Haven, CT

# Administrative Positions:

2009-15 Associate Director of Pediatric Simulation, Yale New Haven Children’s Hospital, New

 Haven, CT

2010-2020 Medical Director, CT EMSC, New Haven, CT

2012-17 Associate Trauma Medical Director, Yale New Haven Children’s Hospital, New Haven, CT

2015-present Director of Pediatric Simulation, Yale Center for Medical Simulation, Yale School of

 Medicine, New Haven, CT

2020-present Yale Center Director, National Emergency Medical Services for Children Innovation and Improvement Center. Yale School of Medicine, New Haven, CT

2023- Director of In Situ and Quality and Safety Simulation, Yale Center for Healthcare Simulation, Yale New Haven Health System and Yale School of Medicine

# Board Certification:

American Board of Pediatrics, Pediatrics, 2006

American Board of Pediatrics, Pediatric Emergency Medicine, 2011

# Professional Honors and Recognition:

**International/National/Regional**

2019: Society of Academic Emergency Medicine: Marianne Gausche-Hill Pediatric Emergency Medicine

Excellence in Education Award

2017: Society for Simulation in Healthcare, Presidential Citation for Research Excellence

2017: Society for Simulation in Healthcare, Emergency Medicine Special Interest Group, Research Award

2013: Honorary Lifetime Member of the Indian Pediatric Simulation Society

# University

2016: Yale Medicine Excellence in Quality and Safety Award

2013: Mae Gailani, Junior Faculty Teaching Award, Yale University

# Grant History:

# Current Grants

Agency: HRSA-20-037

ID: Competitive Cooperative Agreement
Title: Regional Pediatric Pandemic Network

PI: Macias

Role:  Education Domain Co-lead

Percent Effort: 20%

Direct Costs Per Year:  $2,500,000

Total costs for project period: $10,000,000

Project Period:  9/1/2022-8/31/2027

Agency: HRSA-20-037

ID: Competitive Cooperative agreement
Title: Emergency Medical Services for Children Innovation and Improvement Center

PI: Remick

Role:  CT Center Lead, Domain Lead Knowledge Management and State Partnerships

Percent Effort: 15%

Direct Costs Per Year:  $2,500,000

Total costs for project period: $10,000,000

Project Period:  7/1/2020-6/30/2025

Agency:  HRSA-16-053 EMSC Targeted Issues Grant

ID: Research Grant

Title:  Prehospital Emergency Care Coordinators

PI:  Cicero

Role:  Simulation Content Expert

Percent Effort: 10%

Direct Costs Per Year:  $325,000

Total costs for the project period: $325,000

Project Period: 9/1/2019-8/31/2024

# Invited Speaking Engagements, Symposia & Workshops Not Affiliated With Yale

# International/National

2020 PediSTARS India. Breaking the barriers in simulation training: tele simulation. Invited keynote speaker. (Zoom)

2020 INSPIRE/IPSSW Healthcare Distance Simulation Summit. Invite speaker. (Zoom)

2020 Pediatric Emergency Care Applied Research Network 2020 Meeting. Invited presentation. EMSC Innovation and Improvement Center 2.0: Transforming Pediatric Emergency Care Through Quality Improvement. (Zoom)

2020 Seattle Children’s Hospital, Department of Pediatrics. Invited Grand Rounds Speaker. Improving Pediatric Emergency Care Through Innovation and Collaboration. Seattle, WA. (Zoom)

2020 6th International Conference in Pediatric Emergency Medicine. Invited Keynote Speaker on behalf of the American Academy of Pediatrics: Multi-system trauma, Sedation, Simulation. Riyadh, Saudi Arabia. (Online Conference Platform)

2019 Children’s Hospital of Philadelphia, Department of Pediatrics. Invited Grand Rounds Speaker. Right Care, Right Place, Every Time. Philadelphia, PA.

2019 Children’s Hospital of Philadelphia, Center for Leadership Innovation in Medical Education. Invited Speaker. Translational Outcomes in Medical Education. Philadelphia, PA.

2019 Nemours Hospital for Children. Invited master faculty: Royal College of Physicians and Surgeons Trauma Resuscitation in Kids. Wilmington, DW.

2019 Rainbow Babies Hospital, EMSC National Dissemination and Implementation Conference. Simulation-based Training Methodology. Invited Keynote Speaker. Cleveland, OH.

2019 Latin American International Congress of New concepts in Pediatric Emergency and Critical Care. Invited Keynote Speaker: Simulation in Trauma and Medical Resuscitation. Mexico City, MX.

2019 EMSC National Conference. Invited Keynote Speaker: Pediatric Emergency Care Coordinators. Arlington, VA.

2018 Children’s Hospital Association. Invited Workshop Leader: Improving Patient Safety Through Simulation. Chicago, IL.

2018 Copenhagen Academy for Medical Education and Simulation. Invited Grand Rounds Speaker. Copenhagen, Denmark.

2018 Great Ormon Street Hospital. Invited Grand Rounds Speaker. Improving Patient Outcomes Through Simulation Based Research. London, UK.

2018 University of Lubeck Children’s Hospital. Invited Grand Rounds Lecturer. Improving Pediatric Acute Care through Simulation. Lubeck, Germany.

2018 AHA National Town Hall, Scientific Statement on Resuscitation Education: Spaced Learning. International Webinar Invited Speaker.

2018 Baylor College of Medicine. Pediatric Grand Rounds Invited Speaker. Improving Pediatric Acute Care through Simulation. Houston, TX.

2018 University of California at Davis. Emergency Medicine Grand Rounds Invited Speaker. Improving Outcomes through Simulation. Davis, CA.

2018 McMaster School of Medicine. Pediatric Grand Rounds Invited Speaker. Improving Pediatric Acute Care through Simulation. Hamilton, ON, Canada.

2018 Los Angeles Emergency Department Approved for Pediatrics Annual Conference, May, 12 2018. Key Note Speaker. Los Angeles, CA.

2018 University of Colorado. Children’s Hospital of Colorado Invited Speaker. Department of Pediatrics Grand Rounds: Right care, right place, right time. Denver CO.

2018 Nationwide Children’s Hospital: Trauma Resuscitation in Kids Course Director and Master Faculty. Columbus, Ohio.

2017 Pediatric Trauma Society Meeting. Invited Workshop: EMS Prehospital Simulation Skills Day. Invited Workshop: Pediatric disaster triage train the trainer course. Charleston, SC.

2017 Academic Emergency Medicine Consensus Meeting: Catalyzing System Change through Health Care Simulation: Systems, Competency, and Outcome. Invited keynote speaker: The translational impact of simulation-based research and educational networks in Emergency Medicine. Orlando, FL

2017 Safar Symposium. Invited keynote, Maximizing the Impact of Simulation-based Research on Patient Outcomes through Collaboration. Pittsburgh, PA.

2017 Grand Rounds, Nemours Hospital. Maximizing the Impact of Simulation-based Research on Patient Outcomes. Orlando, FL.

2017 University of Calgary, Healthy Outcomes Grand Rounds Invited Speaker. Improving Pediatric Care Across the Continuum. Calgary AB, Canada.

2017 Invited Master faculty: Royal College of Physicians and Surgeons Trauma Resuscitation in Kids Train-the-trainer course. Charleston, SC.

2017 American College of Emergency Physicians Quality Improvement and Patient Safety Section Annual Webinar Invited Speaker: Teamwork and Team Training in the Emergency Department: Simulation to Improve Patient Safety and Quality in the ED.

2016 Child Passenger Safety Across the Continuum of Emergency Care. Invited Keynote Speaker. New England Child Passenger Safety Symposium: Be Seat Smart. Burlington, VT.

2015 Collaboration and Innovation in Patient Safety. MCIC Symposium. Featured Speaker: Leveraging simulation to improve quality and safety. Washington, DC.

2015 University of Southern California, Children’s Hospital of Los Angeles Research Symposium. Keynote Speaker: Designing Effective and Rigorous Simulation-Based Research in Healthcare. Los Angeles, CA.

2015 International Meeting for Simulation In Healthcare. INSPIRE Research Meeting. Invited Speaker: Research Panel- Simulation Based Research Networks. New Orleans, LA.

2014 Pediatric Academic Society. Invited Speaker: Emergency Medicine SIG: Collaborative Educational Research in Emergency Medicine. Vancouver, BC.

2014 Pediatric Trauma Society. Invited Speaker: Pediatric Trauma Care Across the Continuum Panel. Chicago, IL.

2013 Russian Perinatology and Obstetrics 2013 National Meeting. Invited Keynote Speaker for Simulation Track. Moscow, Russia.

2013 Grand Cayman National Hospital. Invited speaker/course director, Pediatric Emergency Simulation Workshop. George Town, Grand Cayman.

2013 Alberta Children’s Hospital. Simulation Grand Rounds. Improving time to intervention for critical head injuries through simulation. Alberta, BC.

2013 Society for Simulation In Health Care, State of the Art Faculty Development, Symposium, Invited Workshop on Teaching Procedural Skills Using Simulation. Orlando, FL.

2012 Emergency Medical Services for Children Program Meeting, Invited Keynote Speaker, Linking Simulation Based Training and Assessment to Improved Patient Outcomes. Bethesda, MD.

2012 Riley Children’s Hospital, Pediatric Grand Rounds, Linking Simulation Based Training and Assessment to Improved Patient Outcomes. Indianapolis, IN.

2012 John’s Hopkins School of Medicine, Simulation Grand Rounds, Improving time to intervention for time critical head injuries through simulation. Baltimore, MD.

2012 Children’s Hospital of Philadelphia, Simulation Grand Rounds, Improving time to intervention for time critical head injuries through simulation. Philadelphia, PA.

2012 Society for Simulation in Health Care, Inter-professional Education Symposium Invited Speaker: Pediatric Trauma Simulation for Inter-professional Teams. San Diego, CA.

2012 Pediatric Emergency Medicine Board Review Course. Invited Lecturer. Behavioral Emergencies, Cardiac Emergencies. Philadelphia, PA.

2011 International Pediatric Simulation Symposia and Workshops, Invited Plenary Speaker, Linking Simulation Based Training and Assessment to Improved Patient Outcomes. Toulouse, France.

2011 International Conference for Medical Interpreting, Invited Workshop, Simulation-Based Training for Pediatric Trauma Patients (Interpreter’s Perspectives). Boston, MA.

2011 Pediatric Educational Excellence Across the Continuum, Invited Workshop, Simulation-Based Formative and Summative Assessment of Communication Skills. Arlington, VA.

2011 Society for Simulation in Health Care, Research Consensus Summit, Invited Discussion Moderator Translational Simulation Based Research. New Orleans, LA.

2008 University of Ghana Pediatric Grand Rounds, Child Abuse Detection. Accra, Ghana.

# Regional

2020 Boston Children’s Hospital, Simulation Program Director Rounds. Generating scholarship from simulation-based programs. Boston, USA.

2019 Tristate Regional Simulation Symposia- Mount Sinai Medical Center. Patient Outcomes in Simulation-based Research: Invited Keynote. New York, NY.

2019 New York University School of Medicine, Department of Pediatrics Grand Rounds. Improving Pediatric Acute Care through Simulation. New York; NY.

2019 New York Presbyterian-Weill Cornell Hospital: Trauma Resuscitation in Kids Master Faculty. New York, NY.

2018 Cohen Children’s Hospital. Pediatric Trauma Grand Rounds. Improving Pediatric Trauma Care through Simulation. Queens, NY.

2016 CT Emergency Medical Services for Children: The role of the ED provider. Invited Platform Presentation. CT Chapter American College of Emergency Physicians Annual Meeting. Rockville, CT

2015 Connecticut Annual Child Passenger Safety Conference. Department of Transportation, Pediatric Emergency Medicine Perspectives on Child Passenger Safety: Lessons for first responders. Invited Keynote Speaker, Hartford, CT.

2014 Regional Pediatric Emergency Medicine Fellows Conference. What do you want to be when you grow up- Educational Scholarship Invited Keynote Speaker, Providence, RI.

2014 Pediatric Sedation Outside the Operating Room. Invited Keynote Speaker: The role of simulation and practice in safe sedation practice. Boston, MA

2014 Elmhurst Hospital, Mount Sinai School of Medicine, Pediatrics Grand Rounds, Can simulation improve patient outcomes? New York, NY

2013 New York University School of Medicine, Pediatric Grand Rounds, Can simulation improve patient outcomes? New York, NY

2013 Pediatric Emergency Medicine Simulation Based Interdisciplinary Training. Invited Keynote Speaker. BASE Camp, Bellevue Hospital/NYP Cornell. New York, NY.

2012 Rhode Island Hospital, Simulation Grand Rounds, Improving time to interventions for time critical head injuries through simulation. Providence, RI.

2012 Stony Brook Children’s Hospital. Invited speaker for Emergency Medicine Grand Rounds. Improving patient outcomes through simulation. Stony Brook, NY.

2012 Pediatric Emergency Medicine Simulation Based Interdisciplinary Training: BASE Camp. Invited Facilitator. New York, NY.

2011 Pediatric Emergency Medicine Simulation Based Interdisciplinary Training: BASE Camp.

 Invited Facilitator. New York, NY.

2010 Saint Barnabas Hospital, Pediatric Grand Rounds, Simulation-Based Medical Education Improves Patient Outcomes, New York, NY. October 5,2010

# Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale

**International/National**

2020 International Meeting for Simulation in Health Care. San Diego, CA.
INSPIRE meeting presentation: ImPACTS for Office Preparedness.

Research Platform: Improving Pediatric Primary Care Emergency Readiness through Simulation-based Collaborations. (second place, overall best abstract)
Research Platform: Improving Pediatric Emergency Care through Simulation-based Collaborative Improvement Program.
Workshop: Simulation Workshop for Peer reviewers.

Workshop: In Situ Simulation: A Point of Care Investigative Methodology

Workshop: Wearable Technologies to Measure Physiology in Simulation

2019 American Academy of Pediatrics NCE. Platform Presentation, Section of Emergency Medicine. National Dissemination of the ImPACTS Program improves Pediatric Readiness. SIG Chair: National Pediatric Readiness Project. New Orleans, LA.

2019 International Pediatric Simulation Symposia and Workshops. May 20-23

 Platform: Improving Pediatric Airway Management in General Emergency Departments: The Impact of a Simulation-based Collaborative Improvement Program. Toronto, ON.

2019 Pediatric Academic Societies. Poster presentation: Rural Emergency Department Pediatric Care Quality. Baltimore, MD.

2019 Pediatric Emergency Care Learning Collaborative Meeting. Program Chair

 Workshop: Simulation-based training for EMS providers. Austin, TX.

2019 International Meeting for Simulation in Health Care. San Antonio, TX.
INSPIRE meeting presentation: ImPACTS.

Platform: Improving Pediatric Airway Management in General Emergency Departments: The Impact of a Simulation-based Collaborative Improvement Program (second place overall best abstract)
Workshop: Simulation Workshop for Peer reviewers

Workshop: Simulation Based Reporting Guidelines

Panel: Simulation Mentorship

2018 AAP District 7 and 8 Meeting National Webinar. Project ECHO-CAN: An intervention to improve pediatric child abuse care in community hospitals.

2018 Pediatric Academic Societies, Toronto CA. May 5-9.

Workshop: Reaching out to community Hospitals

Workshop: Disaster Triage train the trainer.

Poster presentation: Rapid Fluid Delivery with a Novel Device.

2018 Aligning the Pediatric Emergency Medicine Research Agenda to Reduce Health Outcomes Gaps: Society of Academic Emergency Medicine Consensus Conference 2018.

 Planning Committee and Working Group Member

2018 Society of Academic Emergency Medicine, Indianapolis, IN.

Poster presentation: Community Hospital Emergencies.

2018 International Meeting for Simulation in Health Care, Los Angeles, CA.

Workshop: Improving Pediatric Acute Care through Simulation

Workshop: Teaching and Assessing Procedural Skills: LSPPDM

Workshop: Speed Mentoring

Workshop: Reporting Guidelines for Simulation Based Research

Workshop: Improving Patient Safety through Simulation

2017 Pediatric Trauma Society Meeting. Charleston, SC.

 Platform: Pediatric Trauma Guidelines

 Platform: The value of a picture: improving the accuracy of burn assessment and quality of care through telemedicine in a level 1 pediatric trauma center

 Poster: Improving pediatric trauma transfers: a quality improvement intervention.

2017 American College of Emergency Physicians Meeting. Washington, DC.

Poster Presentation: Pediatric emergency care coordinators in US emergency departments.

2017 10th Annual Conference on Dissemination and Implementation Science, Arlington, VA.

Poster: Improving capnography use among critically ill patients: An implementation study

2017 International Pediatric Simulation Society Workshops. Boston, MA

Pre-meeting workshop: Reporting Guidelines for Health Care Simulation Research: Extensions to the CONSORT and STROBE Statements.

Workshop: Train-the-trainer ImPACTS.

Workshop: Cognitive error training through simulation.

Workshop: Multimodal training for pediatric disaster triage

2017 Society for Academic Emergency Medicine. Orlando May 2017

 Presentation: Experience and Confidence in Performing Invasive Pediatric Procedures: An international survey of EM, Pediatric EM and Pediatric Attendings.

2017 National Association of EMS Physicians Annual Meeting, New Orleans, LA

 Poster: 60 Seconds to Survival: A Disaster Triage Video Game and Improved Triage Accuracy for Prehospital Care Providers

 Poster: Communication Between Emergency Medical Services (EMS) and Hospitals for Medical Surge in Pediatric Mass Casualty Incidents: An Evaluation of Connecticut Hospitals

2017 International Meeting for Simulation in Health Care, Orlando, Fl

 INSPIRE Meeting Chair, January 28, 2017

Workshop: Reporting Guidelines for Health Care Simulation Research: Extensions to the CONSORT and STROBE Statements.

2016 International Meeting for Simulation in Health Care, San Diego, CA, January 16-20, 2016. INSPIRE Research Meeting Chair January 15

Workshop: Stress the Space: Simulation for New Process or Space Testing

Workshop: Maximize the Impact of Simulation on Patient Safety through Systems Integration
Workshop: Teaching and Assessing Procedural Skills: The LSPPDM Approach

Poster: Reporting Guidelines for Health Care Simulation Research: Extensions to the CONSORT and STROBE Statements.

2016 National Association of Emergency Medical Services Physicians. San Diego, CA,

 Poster Presentation: Serious Play: Feedback to Improve a Disaster Triage Video Game

 \*Conference Award for Best Research Abstract

2015 Pediatric Trauma Society, Scottsdale, AZ, November 6-7 2015

 Poster: Identification and evaluation of abuse in a Pediatric Emergency Department: Use of a screening tool to increase involvement of the child protection team in early detection.

 Plenary session moderator

 Platform presentation: Articles that will change your practice.

2015 Agency for Healthcare Research and Quality Annual Meeting, Crystal City, VA

 Presentation: CHIRAL (Center for Healthcare Innovation Research and Learning) Project Update

2015 Pediatric Academic Society, San Diego, CA, April 25-28, 2015

 Poster: Comparing Pediatric Acute Care Delivery Across a Spectrum of Emergency Departments

2015 International Meeting for Simulation in Healthcare, New Orleans, LA

INSPIRE Research Meeting

Workshop: Mobile outreach simulation: a how to guide.

Workshop: Look before you leap: simulation for new spaces.

2014 Pediatric Academic Society, Vancouver, BC, May 3-6, 2014

Workshop: Helping teachers create better healthcare simulations

Workshop: Strategies for simulation-based competency assessment of procedural skills

Platform: Medical Education: Validation of Global Rating Scale and Checklist Instruments for the Infant LP Procedure

Platform: Quality Improvement: Standardized Simulation Assessment Reveals Disparities in Pediatric Sepsis Quality of Care Indicators Across a Spectrum of Emergency Department

Platform: Quality Improvement: Standardized Simulation - Assessment of the Quality of Pediatric Cardiopulmonary Resuscitation Across a Spectrum of Emergency Departments

Platform: Qualitative Research: Barriers of a Competency Educational Model for Infant Lumbar Punctures

Poster: Emergency Medicine: Poster Assessing Differences in Experiences With Management of Critically Ill Children in Pediatric Emergency Departments and General Emergency Departments

Poster: Emergency Medicine: Comparing the Quality of Care By Pediatric Emergency Medicine Physicians To Non-Pediatric Emergency Medicine Physicians: A Systematic Review

Poster: An Evaluation Instrument for Pre-hospital Pediatric Disaster Triage Simulations

 2014 International Meeting for Simulation In Healthcare, San Francisco CA

 Platform: Qualitative Research: Barriers of a Competency Educational Model for Infant Lumbar Punctures

 Platform: Simulation research design and internal validity

 Expert panel, Mobile simulation: getting into the trenches

 Workshop, PRIDE: Pediatric Disaster Train-the-trainer

 Workshop, Look before you leap: simulation for new spaces.

 Workshop, Simulation-based research: improving rigor and impact

 Poster: Program Innovations, COMET- Mobile Simulation

 Poster: Qualitative Research: Barriers of a Competency Educational Model for Infant Lumbar Punctures

2013 International Pediatric Simulation Society Symposia and Workshops, New York, NY

 Workshop Presentation, Teaching Pediatric Emergency Medicine Procedures in the Simulated Setting, Checklists, Protocols, Tips and Tricks

 Platform Presentation, Does a just in time simulation based competency assessment improve trainee clinical success with their first infant lumbar puncture?

2013 Association of Pediatric Program Directors Meeting, Arlington VA.

 Research Poster Presentation, Validation of Global Rating Scale and Checklist Instruments for the Infant Lumbar Puncture Procedure among Resident Rater

2013 Pediatric Academic Society, Academic Pediatric Association, Washington, DC

 Workshop Presentation, How to use mastery learning for pediatric procedural skills training

 Workshop Presentation, Designing a Simulation Based Curriculum for Your Acute Care Fellowship Program

 Poster Presentation, Does Just in time simulation-based competency assessment improve trainee clinical success with first infant LP

 Poster Presentation, Analgesia use for infant lumbar puncture after and educational intervention

 Poster Presentation, Simulated Disasters to Assess the Accuracy of Three Pediatric Disaster Triage Strategies

 Poster Presentation, BASE Camp: Pediatric Emergency Medicine Fellow Simulation Based Procedural Skills Training

2013 Children’s Hospital Association Annual Meeting, Garden Grove, CA.

 Poster Presentation, Simulation for Pediatric Office Emergency Preparedness

 Poster Presentation, Pediatric Trauma Simulation to Improve Patient Outcomes

2013 International Meeting for Simulation In Healthcare, Orlando, FL.

Workshop Presentation, Look Before You Leap! Using Simulation to Prepare for a New Clinical Space or Process

 Workshop Presentation, Identifying and overcoming challenges in multi-center simulation research

 Workshop Presentation, Designing a Simulation-based Medical Education Curriculum for Your Fellowship Program

 Workshop Presentation, Not a Team Player: Using Simulation for Formative and Summative Assessment of Teamwork and Communication Competencies

 Platform Presentation, Building Capacity for Multi-center Simulation Research: Strategies for Success in Developing an International Specialty Specific Simulation Research Network

 Poster Presentation, The Use of Just-In-Time Simulation-based Assessment to Predict Trainee's Clinical Infant Lumbar Puncture Success

2012 Eastern Society for Pediatric Research, Philadelphia, PA. Poster Presentation, Comparison of GlideScope Videolaryngoscopy to Direct Laryngoscopy for Intubation of a Pediatric Simulator by Novice Physicians

2012 American Academy of Pediatrics National Conference, New Orleans, LA. Platform Presentation, Pediatric Supervisors' Point of Care Evaluation of Trainees' Procedural Readiness: A Qualitative Analysis

2012 Pediatric Academic Society, Boston, MA.

 Workshop Presentation, Designing a Simulation Based Medical Education Curriculum for Your Fellowship Program

 Workshop Presentation, What Do You Do When a Trainee is Not a Team Player? Using Simulation Based Training for Formative and Summative Assessment of Teamwork and Communication Competencies

 Platform Presentation, The Use of Just−in−Time Simulation−Based Assessment To Predict Trainee's Clinical Infant Lumbar Puncture Success

 Poster Presentation, Comparison of GlideScope Videolaryngoscopy to Direct Laryngoscopy for Intubation of a Pediatric Simulator by Novice Physicians

 Poster Presentation, Creation and Delphi-Method Refinement of Pre- hospital Pediatric Disaster Triage Simulations.

 Poster Presentation, Script Concordance Testing and Lumbar Puncture Practice Variation among Trainees and Physicians

2012 International Meeting for Simulation In Healthcare, San Diego, CA.

 Platform Presentation, Linking Simulation-based Training and Assessment to Improved Patient Outcomes

 Platform Presentation, Using Adobe Captivate to Synchronize Trainers for a Multi-center International Simulation Intervention Study

 Expert Panel, Innovative Collaborations in Simulation-based Education and Research Workshop

 Poster Presentation, Multidisciplinary In-situ Simulation Improves the Quality of Pediatric Trauma Care

 Poster Presentation, Does "Just-in-time"" Simulation-based Competency Assessment Predict Clinical Infant Lumbar Puncture Procedural Success

2011 Eastern Society for Pediatric Research, Philadelphia PA.

 Platform Presentation, Impact of BASE Camp: Simulation-Based Multidisciplinary Team Training for Pediatric Emergency Medicine Fellows

 Platform Presentation, New Pediatric Interns Infant Lumbar Puncture Skills

 Platform Presentation, Just in Time Simulation-Based LP Training: A Qualitative Evaluation

2011 American Academy of Pediatrics National Conference, Boston, MA.

 Poster Presentation, Impact of a Simulator Based Just-in-time Refresher training for interns on their clinical success rate with infant lumbar puncture

 Poster Presentation, Simulator Based Just-In-Time Competency Assessment to Predict Clinical Infant Lumbar Puncture Success

 Poster Presentation, Improving Detection of Endotracheal Tube Dislodgement by Pediatric Residents with Capnography

2011 International Pediatric Simulation Symposia and Workshops, Toulouse, France.

 Platform Presentation, Multidisciplinary in-situ simulation improves the quality of pediatric trauma care in an emergency department

Platform Presentation, Psychiatric Simulations: a low cost, high yield approach to teaching safe practice in out-of-control situations

 Platform Presentation, Qualitative Evaluation of simulation-based educational intervention.

Platform Presentation, Impact of just in time refresher training for interns on their clinical success rate with infant LP

Platform Presentation, Simulation-based competency assessment to predict clinical infant lumbar puncture success.

Platform Presentation, Developing online train-the-trainer modules to standardize pediatric SBME

Platform Presentation, Widespread implementation of simulation- enhanced interdisciplinary team training.

 Platform Presentation, From civilian to warrior, pediatric emergency medicine boot camp

 Platform Presentation, Impact of boot camp for pediatric emergency medicine fellows

 Platform Presentation, Beyond Mock Codes: A Bespoke Pediatric Simulation Curriculum

Poster Presentation, Pediatric resident neonatal intubation success rates do not improve with current airway education methods

 Poster Presentation, Validation of an infant lumbar puncture global skills assessment tool

2011 Pediatric Academic Society, Denver, CO.

Poster Presentation, Just in Time Simulation-Based LP Training: A Qualitative Evaluation

Poster Presentation, New Pediatric Interns Infant Lumbar Puncture Skills

Poster Presentation, Impact of BASE Camp: Simulation-Based Multidisciplinary Team Training for Pediatric Emergency Medicine Fellows

Poster Presentation, Training Experiences of Pediatric Emergency Medicine Fellows Before Fellowship

2011 International Meeting for Simulation In Healthcare, New Orleans LA, January 21-26, 2011

 Platform Presentation, Validation of a Global Skills Assessment Tool for Resident Infant Lumbar Puncture Skill

 Platform Presentation, Simulation Research Consortia: Benefits and Challenges.

 Workshop, Assessing Invasive Procedures Using Evaluative Checklists

 Workshop, Speed dating, polishing your research idea into a protocol

 Platform Presentation, Patterns of Analgesia Use by Pediatric Interns for Lumbar Puncture in Children Less Than One Year of Age

 Poster Presentation, Simulation-Based Mastery Learning Intervention on Pediatric Interns Procedural Skills Performance: A Multicenter Randomized Trial

 Poster Presentation, The Impact of Simulation-Based Mastery Learning with Just-In-Time Training Refreshers on Clinical Infant Lumbar Puncture Success Rates

 Poster Presentation, Does Mastery Training and Just-In-Time Training Using Lumbar Puncture Simulators Increase the Incidence of Traumatic Lumbar Punctures?

 Poster Presentation, Pediatric Resident Procedural Experience: How Much Is Enough?

 Poster Presentation Impact of Medical School Simulation Training Experiences on Infant Lumbar Puncture Knowledge, Skills and Attitudes

2010 American Academy of Pediatrics National Conference, San Francisco, CA.

 Poster Presentation, Effect of a Simulation-Based Mastery Learning Intervention on Pediatric Interns Procedural Skills Performance: A Multi- center Randomized Trial

2010 International Pediatric Simulation Symposia and Workshops, Madrid, Spain

 Platform Presentation, The Effect of Simulation-Based Mastery Learning on Pediatric Interns Procedural Skills Performance, A Multicenter Randomized Trial

 Workshop, Simulation Research: How to use simulation as the ideal outcomes measure for medical education and patient safety research

 Workshop, Widespread implementation of teamwork training: overcoming the Barriers

2010 Pediatric Academic Society, Vancouver, BC.

 Workshop, Measuring the effectiveness of simulation educational interventions on patient outcomes

 Workshop, Table-top Simulation for Pediatric Disaster Preparedness, Triage and Treatment

 Poster Presentation, A Multi-Center Study of Infant Lumbar Puncture during Medical School

 Poster Presentation, Poster, Training During Medical School For Intravenous Line Placement: A Multi-Center Descriptive Study

2010 International Meeting for Simulation In Healthcare, Phoenix, AZ, January 23-25, 2010

 Workshop, Innovative Uses of Simulation For Evaluation and Training In High Risk Settings

 Poster Presentation, Simulation Training During Medical School for m Common Pediatric Procedures: a Multi-Center Descriptive Study.

2010 Eastern Society for Pediatric Research, Philadelphia, PA.

 Platform Presentation A Multi-Center Study of Infant Lumbar Puncture during Medical School

 Platform Presentation, New Interns Have Little Training or Confidence in Their Pediatric IV Skill

**Professional Service**

**Peer Groups/Grant Study Sections:**

DOD: CDMRP TRIAGE Peer Review Panel 2018

HRSA: Pediatric Emergency Care Applied Research Network Reviewer, May 20-21 2015

SSH Fellows Academy: Inaugural Reviewer, October 6-7, 2016

Seattle Children’s Research Institute: External reviewer

Portugese Research Society: External reviewer

RBaby Foundation: External reviewer

AAP Section of Emergency Medicine Ken Graff Award: External reviewer

American Academy of Pediatrics HealthyChildren.org: External reviewer

American Academy of Pediatrics, PEM Pics Review Committee

# Journal Service:

Associate Editor

*Simulation in Health Care*

Editorial Board

*BMJ Simulation and Technology Enhanced Learning*

*Simulation in Health Care*

Reviewer

*Pediatrics; JAMA Pediatrics; Journal of Patient Safety; Academic Emergency Medicine; Academic Pediatrics; Advances in Simulation; Clinical Pediatrics; Canadian Journal of Emergency Medicine; BMJ Quality and Safety; BMJ Case Reports; BMJ Simulation and Technology Enhanced Learning; BMJ Emergency Medicine; Simulation in Health Care; Pediatric Emergency Care; Emergency Medicine International; European Journal of Emergency Medicine Hospital Pediatrics; Journal of Hospitalist Medicine; Archives of Diseases in Childhood; Croatian Medical Journal; Teaching and Learning in Medicine; Pediatrics and Child Health: Journal of the Canadian Paediatric Society; MedEdPORTAL (American Association of Medical Colleges); Journal of Graduate Medical Education (ACGME)*

Abstract Reviewer

International Network for Simulation-based Pediatric Innovation Research and Education

International Pediatric Simulation Symposium and Workshops

International Meeting for Simulation in Healthcare

American Academy of Pediatrics National Conference and Exhibition

Pediatric Trauma Society

Pediatric Academic Societies

Eastern Society for Pediatric Research

AAMC Medical Education Meeting

Society of Academic Emergency Medicine

# Professional Service for Professional Organizations:

Elected offices:

2018- present Chair, AAP Section of Emergency Medicine Pediatric Readiness Special Interest Group

2011- 2018 Chair, INSPIRE (International Network for Simulation-Based Pediatric Innovation, Research and Education)

2012- 2016 Executive Committee, Pediatric Emergency Medicine Collaborative Research Committee of AAP

2012- 2015 Chair, Pediatric Academic Society, Simulation-Based Medical Education Special Interest Group

2011- 2014 Chair, POISE (Patient Outcomes in Simulation Education) Network

2009- 2011 Board of Directors, International Pediatric Simulation Society

Committee memberships:

2019-present American Heart Association, Education Writing Group, Scientific Guidelines

2019- present American College of Surgeons, Child Abuse Guidelines Committee

2019-present National Trauma Institute Pediatric Trauma Advisory Panel

2018-present Pediatric Trauma Society, Pediatric Trauma Toolkit Oversight Committee

2018- present American College of Emergency Physicians, Pediatric Emergency Medicine Committee

2017-present American Academy of Pediatrics/American College of Emergency Physicians, Advance Pediatric Life Support, Steering Committee

2016- present Royal College of Physicians and Surgeons, TRIK Course Master Faculty/US lead

2015- 2018 Research Survey Review Committee, Pediatric Emergency Medicine Collaborative Research Committee of AAP

2015-2017 Pediatric Trauma Society, Conference Planning Committee,

2015-2016 Pediatric Trauma Society, Guideline Committee for Non-Accidental Trauma, Co-chair

2014-2016 AAP Section of Emergency Medicine, EMS Subcommittee

2013-2015 Pediatric Trauma Society, Education Committee

2012- 2019 Education Committee, Pediatric Trauma Society

2011- 2018 Research Committee, International Pediatric Simulation Society

2011- 2018 Education Committee, International Pediatric Simulation Society

2011- 2019 Steering Committee, Pediatric Emergency Medicine Collaborative Research Committee of AAP

Leadership roles:

2016- present Master Faculty, Trauma Resuscitation in Kids, Royal College of Physicians.

2018- present National Pediatric Emergency Medicine Simulation Curriculum Collaborative Chair

2016- 2018 Pediatric Trauma Society, Guidelines Committee, Chair,

2014- 2016 ED Team Training and Simulation Subcommittee Chair, MCIC Vermont,

2011- 2015 Course Director, International Pediatric Simulation Society Monthly Online Webinar Series

Meeting planning:

November 2015 Conference Planning Committee, Pediatric Trauma Society, Arizona,

2015 Conference Co-chair, CT Pediatric Trauma Update, New Haven,

November 2014 Conference Planning Committee, Pediatric Trauma Society, Chicago

December 2013 Conference Planning Committee, CT Pediatric Trauma Symposium

April 2013 Conference Chair, International Pediatric Simulation Symposium and Workshops, New York, NY

May 2014 Conference Chair, Pediatric Sedation Outside of the Operating Room for Dentists, Boston, MA

January 2014 Conference Chair, INSPIRE Meeting, San Francisco CA

January 2013 Conference Chair, INSPIRE Meeting, Orlando FL

January 2012 Conference Chair INSPIRE Meeting, San Diego, CA

# Yale University Service/Committees:

***University Committees***

2010 – 2012 Faculty Advisor, Yale Undergraduate Research Associate Program

***Medical School Committee***

2014- present Teaching Attending, Pediatric 3rd Year Clerkship

2013- present Member, Competency Committee, Pediatric Emergency Medicine

2013-2014 Member, Assessment Committee

2013-2014 Mentor, Butler Medical Student Thesis Project

2013-2014 Mentor, O’Brien Medical Student Thesis Project

2012- present Advisor, Medical Education Student Interest Group

2012 Member, Curriculum Committee Patient Care Goals Working Group

Member, Student Clinical Skills Assessment Committee

2012-14 Member, Longitudinal Clinical Experience Working Group

2010- present Member, Clerkship Review Committee

2009- 2013 Clinical Skills PCC Program Faculty (First and Second Year Students)

2009-present Course Director, Pediatric Simulation, Pediatric Clerkship

***Department Committees***

2020- present Chair, Committee to Review Student Participation in Research

2019- present Member, Department of Pediatrics Educational Leadership Group

2015-2016 Grand Rounds Committee

2012- present Director, Pediatric Simulation

2012-2019 Mentor, Pediatric Resident Mentorship Program

2012- present Member, Clinical Competency Committee, Pediatric Emergency Medicine

***Hospital Boards & Committees***

2019-present Chair, Children’s Emergency Services Steering Committee, Yale New Haven Health System

2019- present Chair, Health System Pediatric Emergency Medicine Community of Practice

2019- present Member, Health System Medical Resuscitation Committee YNHHS

2018-2019 Member, Clinical Integration Pediatric Work Group

2014-2016 Member, Center for Healthcare Innovation, Redesign and Learning

2015- present Director, Pediatrics, Yale University School of Medicine Center for Medical Simulation

2012-2016 Associate Medical Director, Pediatric Trauma

2012-2016 Member, Pediatric Trauma Quality and Safety Committee

2010-2011 Planning Committee, Team STEPPS, Simulation Based Teamwork Initiative

2010- present Course Director, YNHCH Acute Care Skills Training Day

2009-2016 Member, Quality and Safety Committee, YNHCH

2009-current Member, Simulation Committee, Yale New Haven Hospital System

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**Peer-Reviewed Original Research**

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**Practice Guidelines, Standards and Consensus Statements**

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