



ACCREDITED CONTINUING EDUCATION

Advancing Analytics for Children's Hospitals

November 11-12, 2021

Children's Hospital Colorado
Anschutz Medical Campus

Hosted Virtually

Provided by: Analytics Resource Center



Children's Hospital Colorado



Affiliated with
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Anschutz Medical Campus

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Advancing Analytics for Children's Hospitals Conference

Overview and Objectives

This conference will explore ways to address the unique analytics challenges pediatric hospitals face and will focus on advanced and innovative analytics solutions for pediatric hospitals. Clinicians, researchers, and experts who are building analytics programs will present best practices with data science, data governance, self-service competencies, and more.

There are four learning tracks focused on Leadership, Operational, Data Science and Research.

Following the presentations, attendees should be able to:

- Describe ways to apply innovative analytical approaches to support predictive or prescriptive analytics.
- Describe analytic skills that focus on computational thinking, critical assessment, and application of analytic methods and approaches.
- Collaborate with other disciplines and faculty across organizations.
- Understand how to use data in everyday practice and illustrate the importance of various forms of data (structured, unstructured).
- Express and translate the importance of embracing multiple methodological approaches in the emerging fields of data science and bioinformatics to other researchers, staff, students, and clinicians.

Continuing Education Credit

Medical

Children's Hospital Colorado is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Children's Hospital Colorado designates this Other activity (Internet Live Course) for a maximum of 5 *AMA PRA Category 1 Credits*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

A certificate of attendance will be available upon completion of the online evaluation for all attendees.

Presenters & Faculty

Brianna Barry, MHA, CLSSGB

Senior Project Manager
Boston Children's Hospital

Sara Deakyne Davies, MPH

Director | Research Informatics & Data Science | Analytics Resource Center
Children's Hospital Colorado

Matt Dye, MPH, MS

Analytics Lead
Children's Hospital Philadelphia

Brad Ewald, MBA

Manager | Data Warehouse/BI Program Analytics | Analytics Resource Center
Children's Hospital Colorado

Katie Gallagher, MA

Sr. Continuous Improvement Analyst
Boston Children's Hospital

Jonathan Geis

Patient Experience Analyst
Dayton Children's Hospital

Tyler Gorham, PhD, MPH

Data Scientist
Nationwide Children's Hospital

Dionne Graham, PhD

Director | Evaluation and Analytics, Program for Patient Safety & Quality
Boston Children's Hospital

Mounika Guntu

Data Scientist II
Nationwide Children's Hospital

Phillip Hahn, MPH

Biostatistician II
Boston Children's Hospital

Shannon Haymond, PhD

Vice Chair for Computational Pathology
Lurie Children's Hospital

Syed-Amad Hussain, B.S.E.

Associate Data Scientist
Nationwide Children's Hospital

Genna Kreher, MPH, CPHQ

Data Literacy Program Manager
Children's Hospital Philadelphia

Carly Milliren, MPH

Biostatistician IV
Boston Children's Hospital

Tyler Moon, B.Sc. ISE, LSSGB

Sr. System Reporting Specialist
Lurie Children's Hospital

Issac Parakati, MS
Senior Statistician
Lurie Children's Hospital

Suresh Sampangiraman
Senior Director
Children's Hospital Philadelphia

Jin Peng, MD, MS, PhD
Data Scientist II
Nationwide Children's Hospital

Patrick Sullivan
Data Analyst
Children's Hospital Philadelphia

Justin Pestrue, MA
Director | Quality Analytics
University of Michigan Health

Gordon Teubner, AAS
IT Architect Sr | Analytics Resource Center
Children's Hospital Colorado

Mihail Samnaliev, PhD
Health Economist, Assistant Professor | Department of
General Pediatrics
Boston Children's Hospital

Anthony Wong
Data Scientist
Lurie Children's Hospital

Agenda

Thursday, November 11, 2021						
Eastern	Central	Mountain	Pacific	Presenter	Event	Tracks
11:00	10:00	9:00	8:00	Children's Hospital Colorado Gordon Teubner, AAS - IT Architect Sr Analytics Resource Center	Census Forecasting	Leadership Operational Data Science
				Boston Children's Hospital Mihail Samnaliev, PhD - Health Economist, Assistant Professor Department of General Pediatrics	Using and Improving Hospital Data to Conduct Economic Evaluations	Research
11:30	10:30	9:30	8:30	Dayton Children's Hospital Jonathan Geis - Patient Experience Analyst	Enhancing Patient Experience Qualitative Data	Leadership Operational Data Science
				Nationwide Children's Hospital Mounika Guntu - Data Scientist II	Identifying the factors influencing patients' telehealth visit satisfaction: Survey validation through a structural equation modeling approach	Research
Break (60-minutes)						
13:00	12:00	11:00	10:00	Dayton Children's Hospital Jonathan Geis - Patient Experience Analyst	Using Visualization Tools to Present Patient Experience Data	Leadership Operational
				Lurie Children's Hospital Anthony Wong - Data Scientist	Identifying Peanut Recommendation in Clinical Notes using Natural Language Processing	Data Science Research
13:30	12:30	11:30	10:30	Boston Children's Hospital Katie Gallagher, MA - Sr. Continuous Improvement Analyst	Powering Analytics through Network Building and Knowledge Sharing	Leadership Operational
				Nationwide Children's Hospital Jin Peng, MD, MS, PhD - Data Scientist II	Application of Machine Learning to Predict Patient No- Shows in an Academic Pediatric Neurology Clinic	Data Science Research

Thursday, November 11, 2021

Eastern	Central	Mountain	Pacific	Presenter	Event	Tracks
14:00	13:00	12:00	11:00	Poster Session (No CME Credit)		
				Children's Hospital Philadelphia Patrick Sullivan - Data Analyst	Improving User Experience in Data Rich Operational Dashboards	Leadership
				Lurie Children's Hospital Issac Parakati, MS Public Health - Senior Statistician	Advancing Analytics in a Clinical Department: The Role of Business Intelligence Dashboards	Leadership
				Lurie Children's Hospital Issac Parakati, MS Public Health - Senior Statistician	Repurposing an epidemiologic statistic to rank areas of potential impact for hospital quality and safety interventions	Operational
				Boston Children's Hospital Carly Milliren, MPH - Biostatistician IV	Time to readmission among newborns: time for a reappraisal? A comparison of methods examining crude and adjusted time to readmission in the first year for infants with neonatal opioid withdrawal syndrome (NOWS) vs. infants without NOWS	Research
				Children's Hospital Colorado Sara Deakyne Davies, MPH - Director Research Informatics & Data Science Analytics Resource Center	Response to COVID Public Health Orders for Clinical Research	Research
				Boston Children's Hospital Phillip Hahn, MPH - Biostatistician II	Creating mother-infant dyads using data from the Pediatric Health Information System: an example examining associations between maternal and infant factors on birth utilization for infants diagnosed with neonatal opioid withdrawal syndrome	Research
Break (30-minutes)						
15:30	14:30	13:30	12:30	Boston Children's Hospital Brianna Barry, MHA, CLSSGB - Senior Project Manager	Design and Implementation of an Institutional Continuous Readiness Dashboard	Leadership
				Children's Hospital Philadelphia Matt Dye, MPH, MS - Analytics Lead	Advancing USNWR Analytical Maturity at CHOP	Operational
				Nationwide Children's Hospital Syed-Amad Hussain, B.S.E - Associate Data Scientist	Natural Language Processing Aided Cohort Identification from Free-Text Clinical Notes	Data Science Research
16:00	15:00	14:00	13:00	Complete online evaluations and adjourn		

Friday, November 12, 2021

Eastern	Central	Mountain	Pacific	Presenter	Event	Tracks
11:00	10:00	9:00	8:00	Boston Children's Hospital Dionne Graham, PhD - Director Evaluation and Analytics, Program for Patient Safety & Quality	Development of institutional standard methods and tools for assessing equity of care at a pediatric healthcare institution	Leadership
				University of Michigan Health Justin Pestrue, MA - Director Quality Analytics	The Analytics of Addressing Sepsis	Operational
				Lurie Children's Hospital Tyler Moon, B.Sc. ISE, LSSGB - Sr. System Reporting Specialist	Mitigating Surgical Flow Failures with Discrete Event Simulation Modeling during COVID-19	Data Science
11:30-12:15	10:30-11:15	9:30-10:15	8:30-9:15	Children's Hospital Philadelphia Genna Kreher, MPH, CPHQ - Data Literacy Program Manager	DnA University & Analytics Concierge Team	Leadership Operational Data Science Research
Break (45-minutes)						
13:00	12:00	11:00	10:00	Children's Hospital Philadelphia Suresh Sampangiraman - Senior Director	Crowdsourcing Healthcare Enterprise Data Model	Leadership
				Children's Hospital Colorado Brad Ewald, MBA - Manager Data Warehouse/BI Program Analytics Analytics Resource Center	Leveraging Data Virtualization	Operational
				Nationwide Children's Hospital Tyler Gorham, PhD, MPH - Data Scientist	Developing the Deterioration Risk Index: A Simulation-Based Approach to Bridging the Machine Learning Algorithm Implementation Gap	Data Science
13:30	12:30	11:30	10:30	Lurie Children's Hospital Shannon Haymond, PhD - Vice Chair for Computational Pathology	Optimized Assignment of Phlebotomists to Balance Workload for Inpatient Blood Collection Requests	Leadership Operational
14:00	13:00	12:00	11:00	Complete online evaluations and adjourn		

Registration

Registration is [Online](https://ce.childrencolorado.org)
<https://ce.childrencolorado.org>

Register online by November 9.

There is no fee to participate, however, registration is required to complete the evaluation for professional continuing education credit.

Cancellation Policy

The Planning Committee reserves the right to alter the agenda or cancel the conference in the event of an unforeseen circumstance, or if the minimum registration is not attained by November 9.