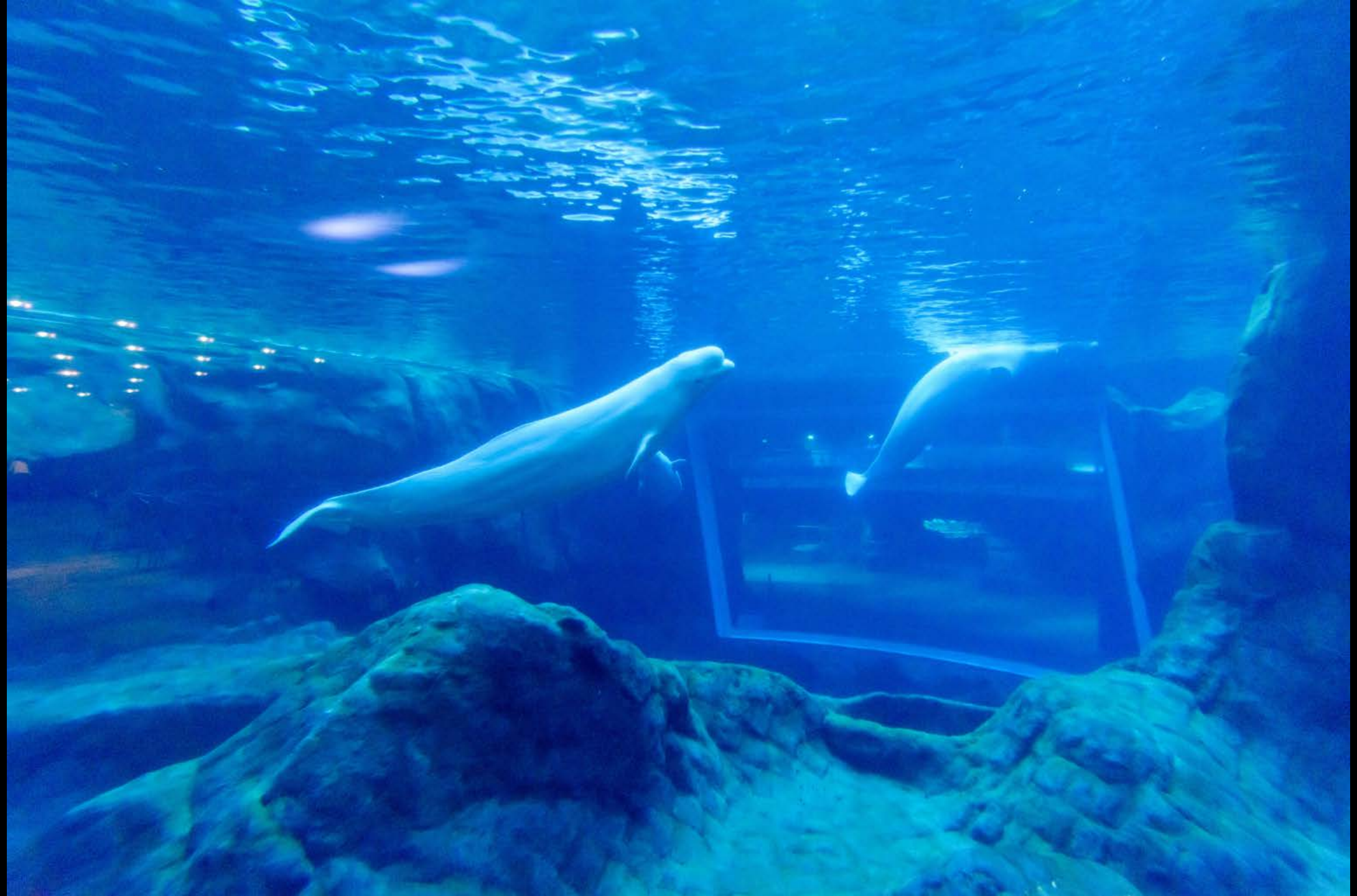
2017 Southeastern Pediatric Research Conference

June 9, 2017

Georgia Aquarium








Southeastern Pediatric Research
Conference: Big Data for Better Care
Georgia Aquarium, Atlanta, GA
June 9, 2017
Registration
















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Case Study 1 - Genomic medicine
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Genetic Misdiagnoses and the Potential for Health Disparities
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Case Study 4a - Predictive diagnostics








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Patterns of Visual Engagement Identify Distinct Subgroups of 24-Month-Olds with Autism Spectrum Disorder
Julia Yurkovic, Scott Gillespie, Warren Jones, Ami Klin, Sarah Shultz
3rd Place
Basic Science Poster
Presented on June 9, 2017
2017 Southeastern Pediatric Research Conference


3rd Place
Basic Science Poster




A Prospective Longitudinal Study
MATERIALS AND METHODS
RESULTS
Summary
1st Place
Basic Science Poster



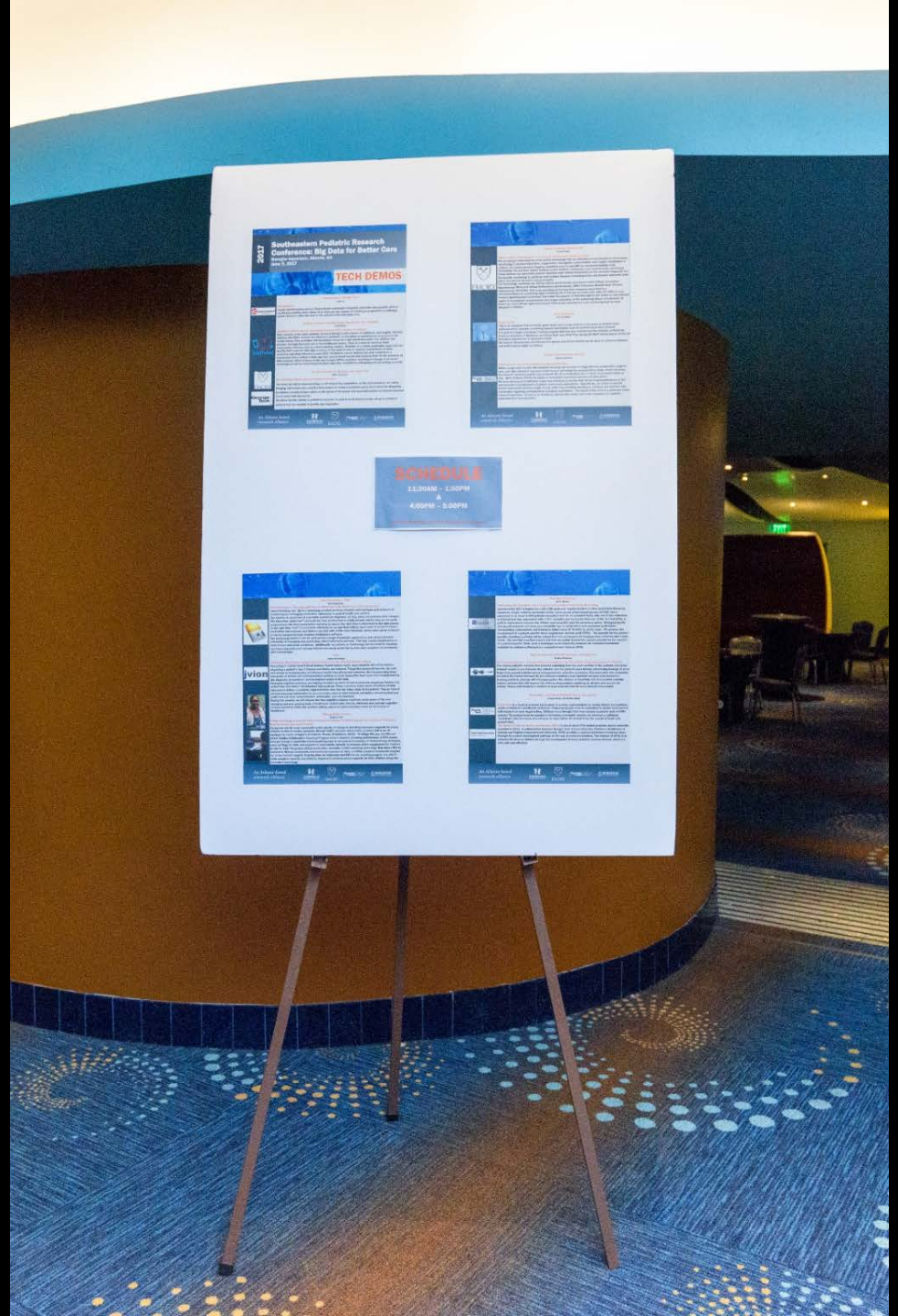


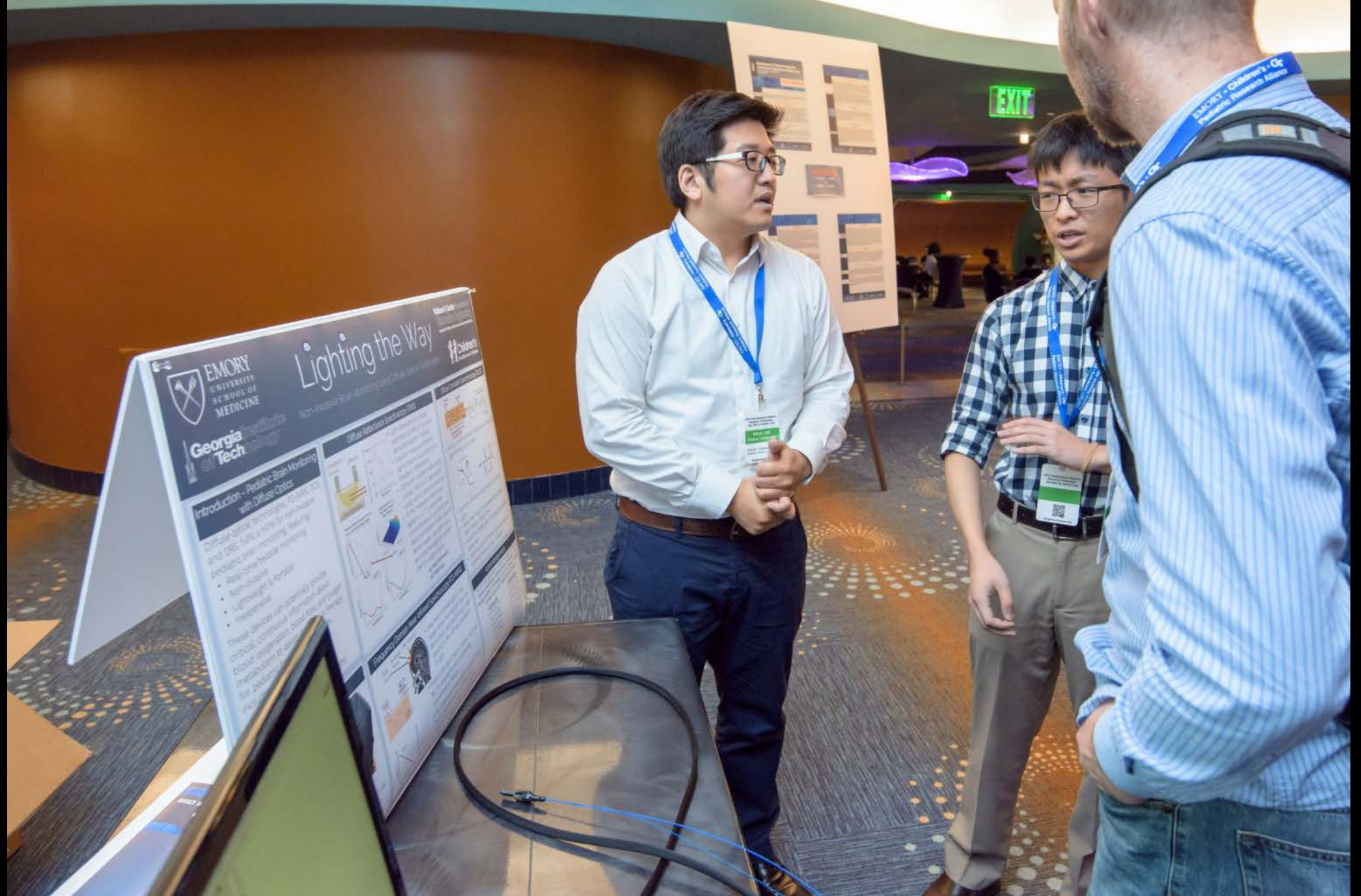

2nd Place
Clinical & Translational Poster








2017
Southeastern Pediatric Research Conference: Big Data for Better Care
June 5, 2017
TECH DEMOS
SCHEDULE
11:30AM - 1:00PM
&
4:00PM - 5:00PM


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Introduction - Pediatric Brain Monitoring with Diffuse Optics
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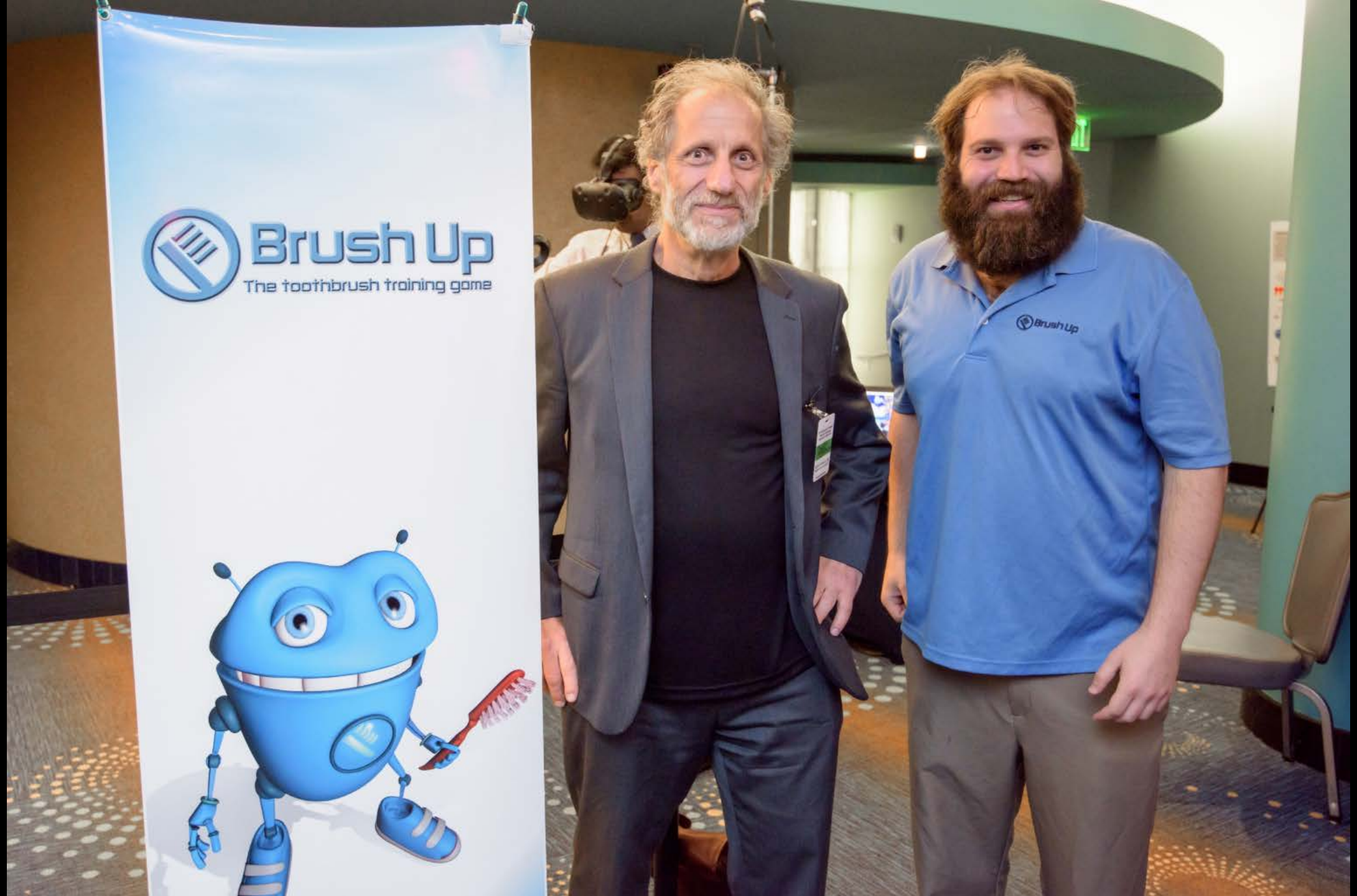

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INTRODUCTION
RESULTS
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resistance in the medulloblastoma tumor microenvironment
Anshu Malhotra and Anna Marie Kenney
tment of Pediatrics, Emory University, Atlanta, GA
Impact on Rotavirus Vaccination: Determining the Effects of Travel Distance and Time on Access to a Rotavirus Vaccine Provider


Impact of an Accelerated Discharge
Recovery Following Posterior Spina
Idiopathic Scoliosis: A Prospective
Childrens






ABSTRACT
BACKGROUND
METHODS
RESULTS
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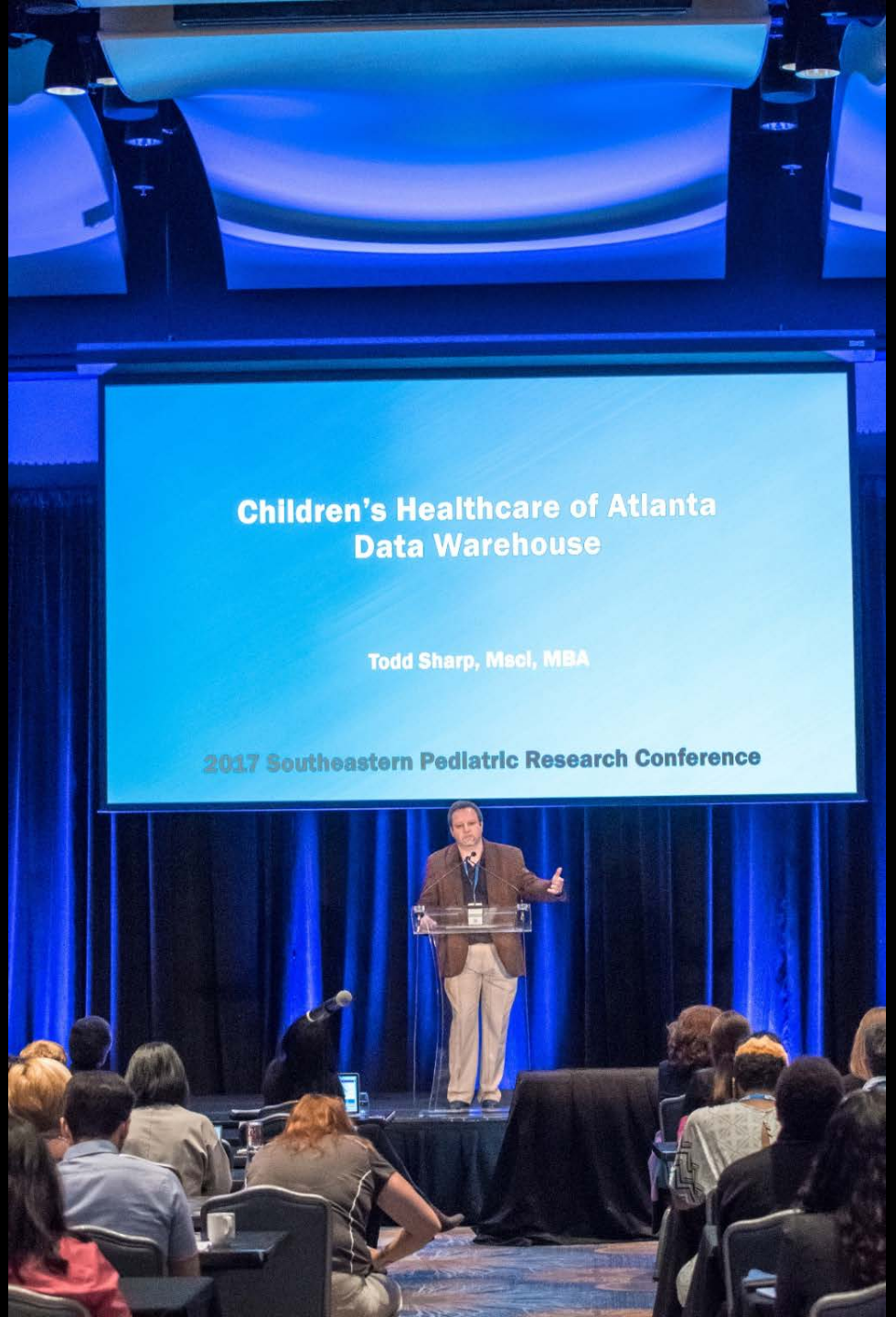




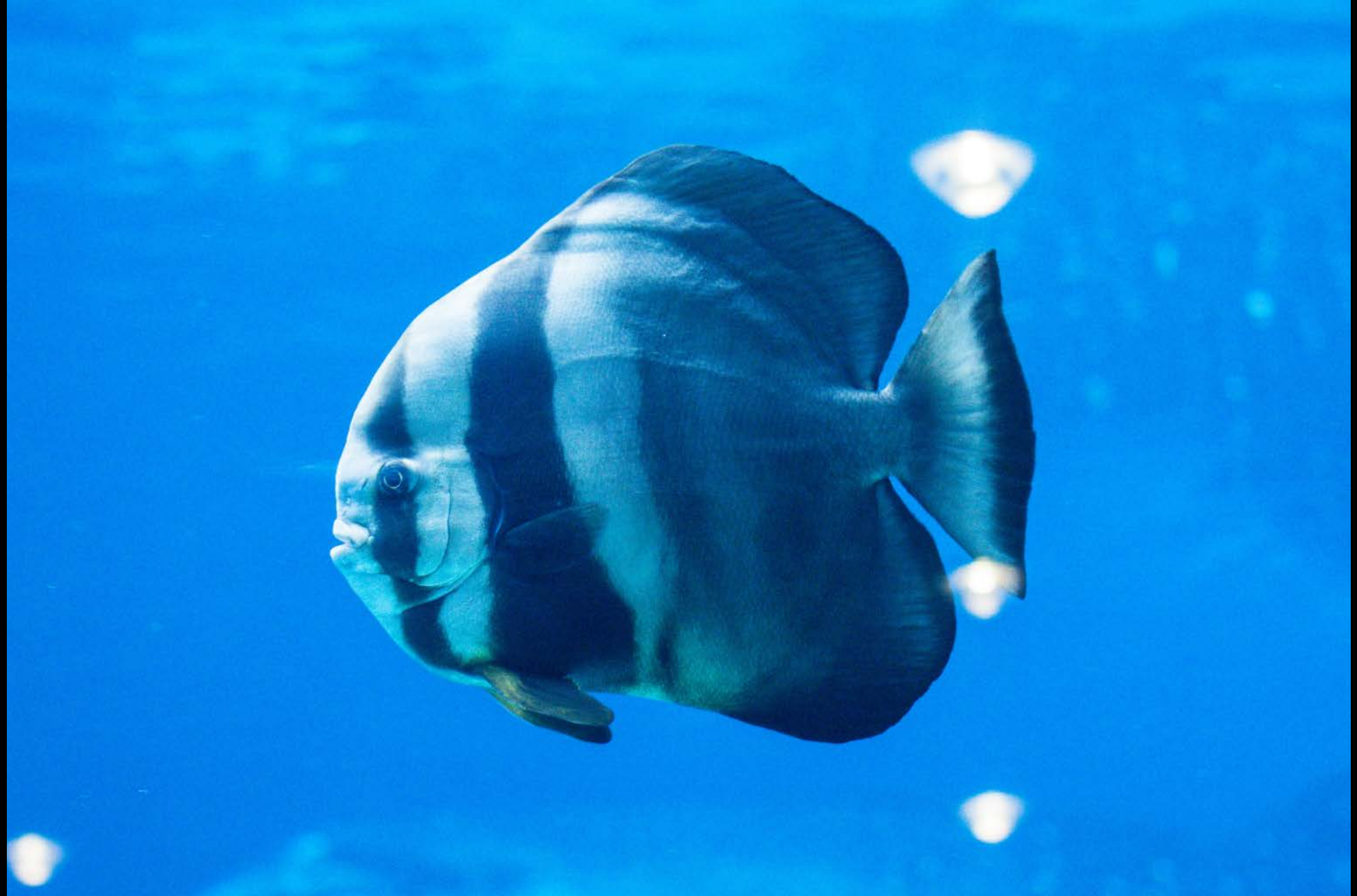




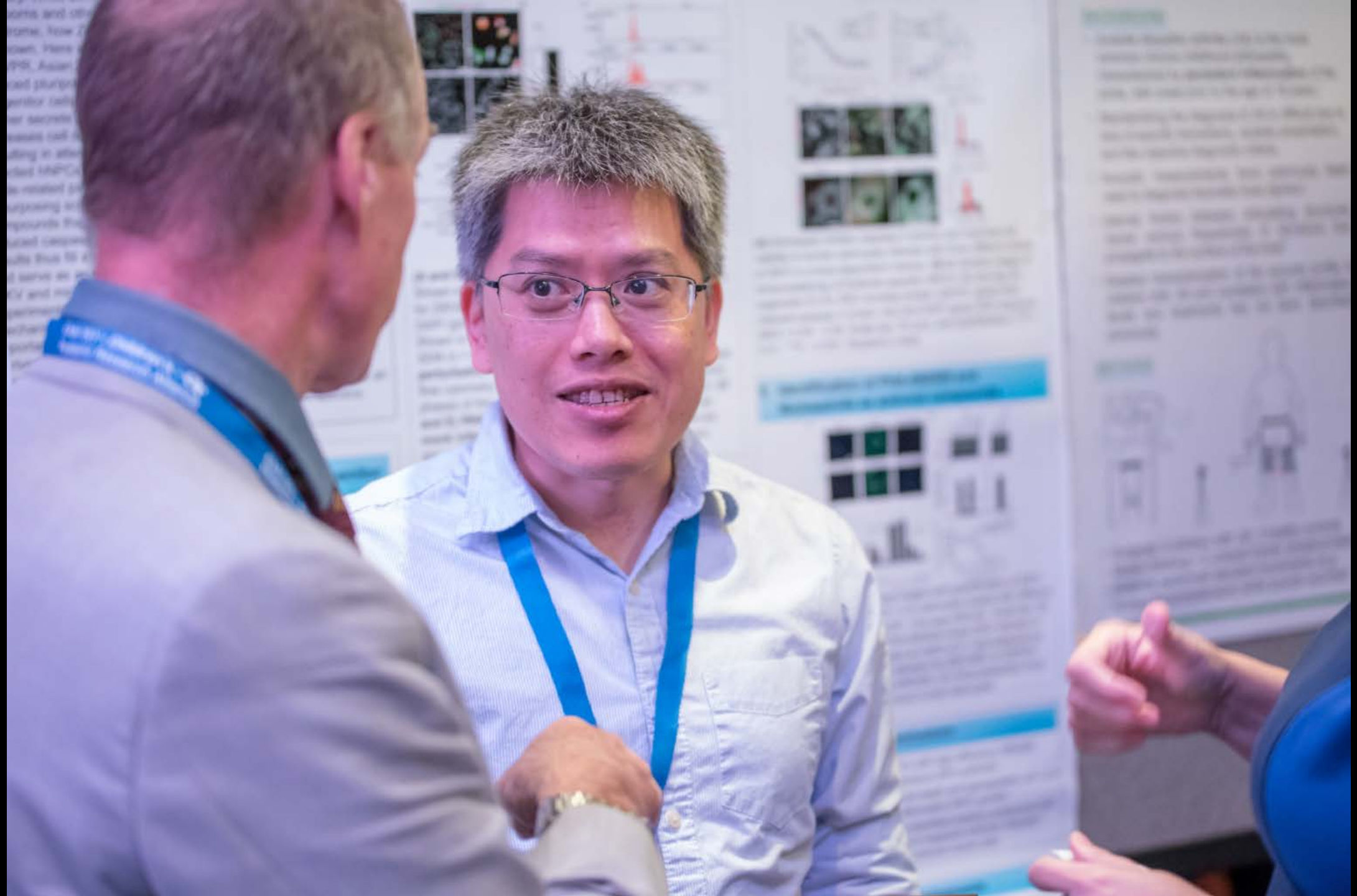

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Children's Healthcare of Atlanta
Data Warehouse
Todd Sharp, Macl, MBA
2017 Southeastern Pediatric Research Conference






Coke




Results
Descriptive analyses were performed on the demographics and each of subscales to measure the extent that parents endorsed each of the constructs
75% were between the ages
and 55. 63%
reporting completing some college and 26% reported having more than a Bachelor's degree.


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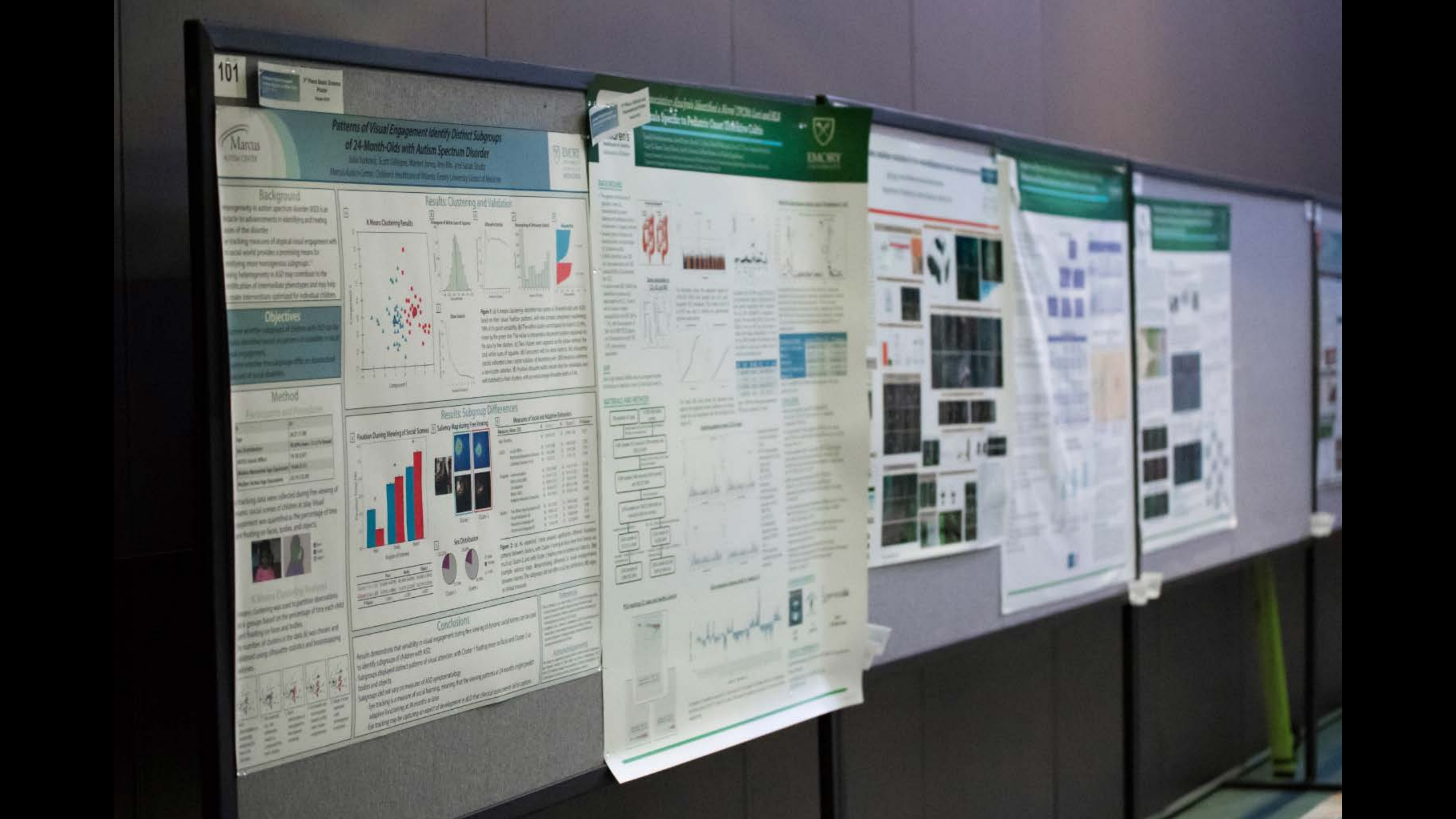

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AusculTech Dx
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101
Patterns of Visual Engagement Identify Distinct Subgroups of 24-Month-Olds with Autism Spectrum Disorder
Marcus
EMORY
Background
Objectives
Method
Results: Clustering and Validation
Results: Subgroup Differences
Conclusions
Acknowledgments
References


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MRI: 78 Studies
CT: 40 Studies
Nuclear Medicine: 53 Studies
Ultrasound : 15 Studies
Interventional Radiology: 3 Studies



HOW TO ACCESS

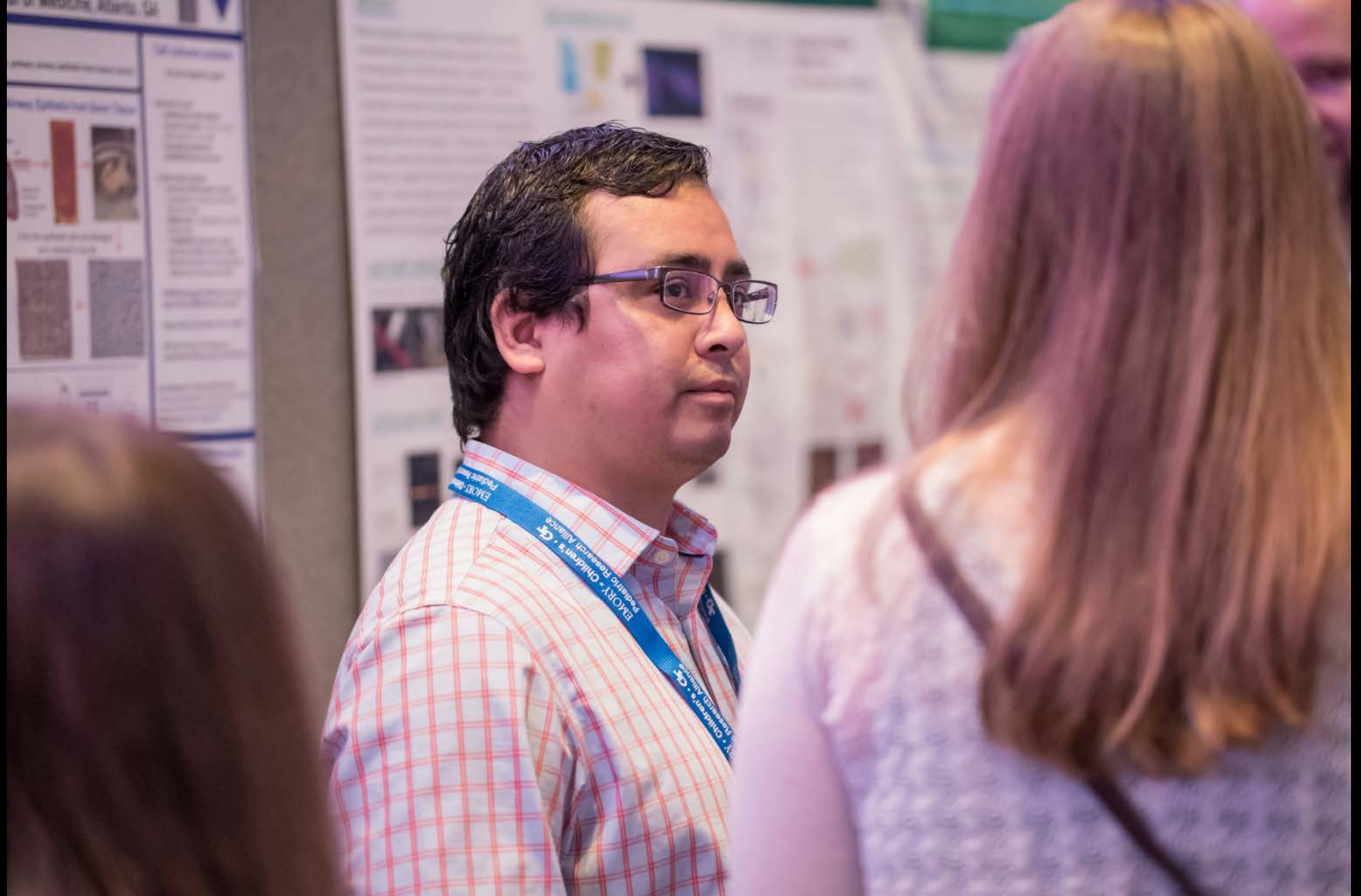
Someone from the study team
Research Protocol Review Form
Victoria Allen. The RPRF should
with a copy of the protocol and

Please allow 2-4 weeks for each
will return the Radiology Protoc
our protocol review, required
description of what information
form.

IMPORTANT CONTACTS

2017 Southeastern Pediatric Research Conference: Big Data for Better Care

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GAURAV KUMAR
Emory University


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AYMAN AKIL
Mercer University


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Conclusions
References
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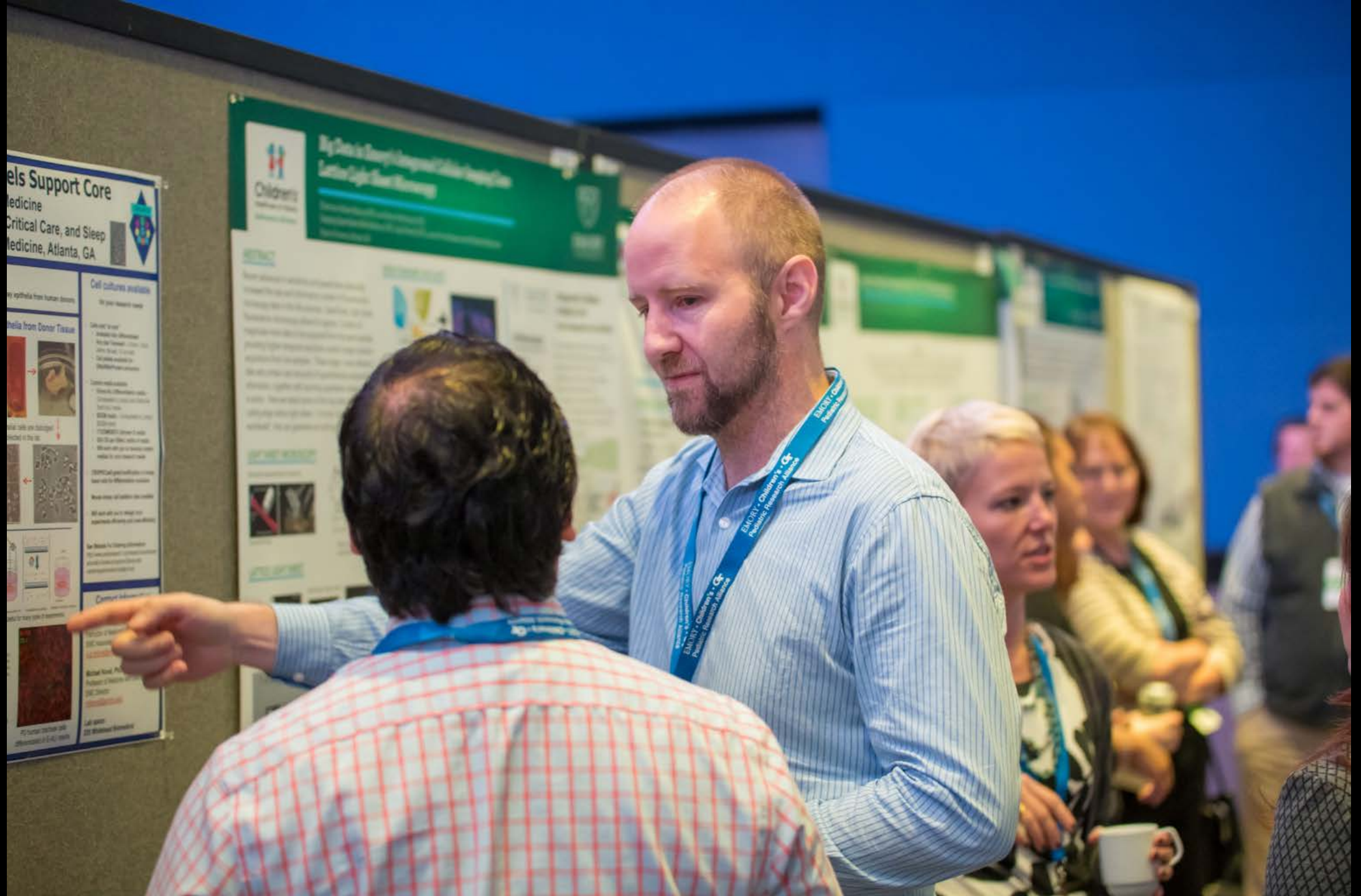









following link:
Investigators will be
to set up an initial in
meeting to determin
projects and estima
utilization.
BUSINESS MODE
Project Prioriti
Projects are p
deliverable a
Additional su
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Impact of this system

- Self-monitoring of anemia in chronically ill patients (~5.5 million in U.S)
- Self-screening of anemia in the general healthy population
- Inexpensive anemia testing in global health settings (> 1 billion affected in LRS)



Inflammatory Diseases





Chronic Infections

Neonates/

ng Age

Toddlers

Elderly

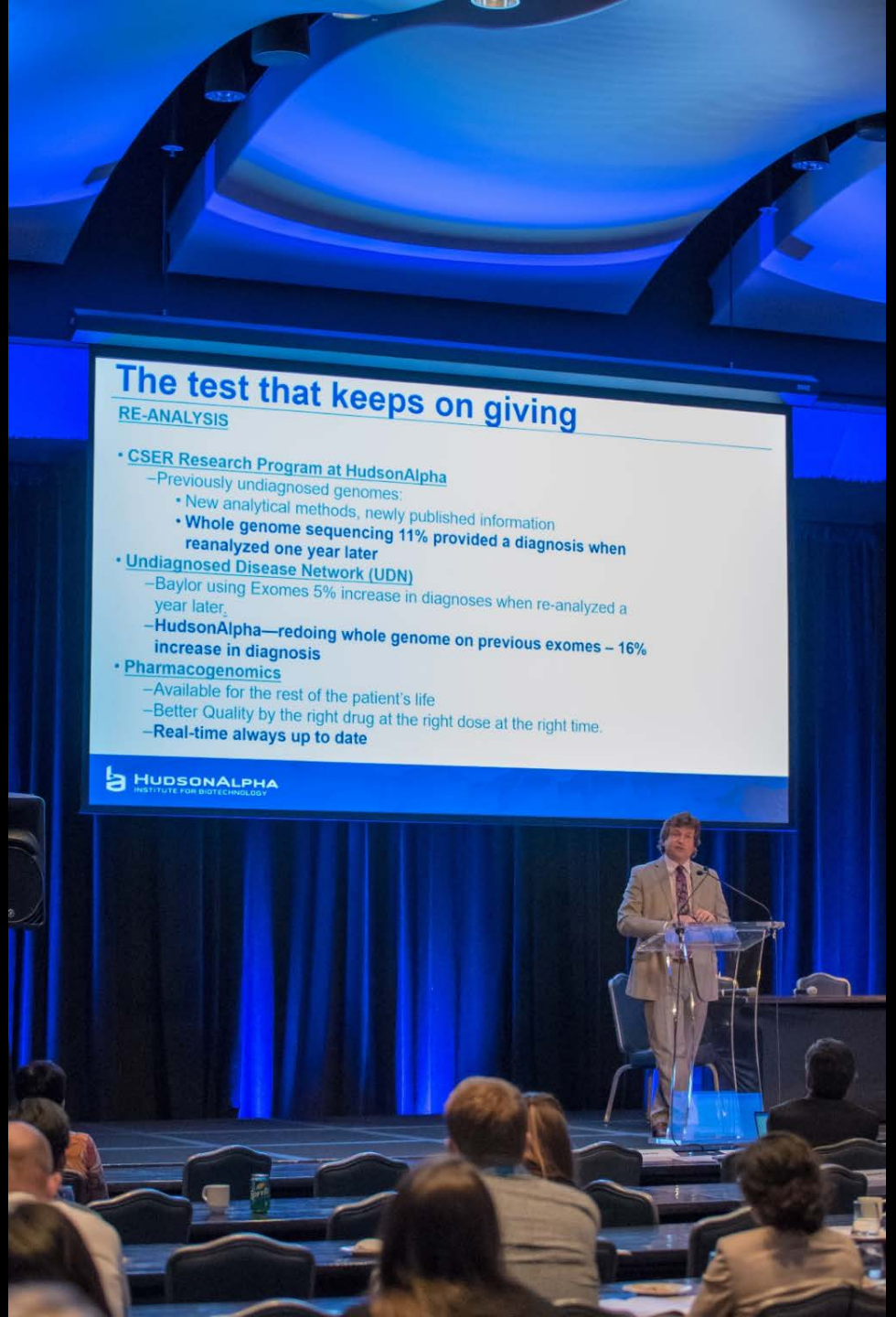
27










The test that keeps on giving
RE-ANALYSIS
• CSER Research Program at HudsonAlpha
–Previously undiagnosed genomes:
• New analytical methods, newly published information
• Whole genome sequencing 11% provided a diagnosis when reanalyzed one year later
• Undiagnosed Disease Network (UDN)
–Baylor using Exomes 5% increase in diagnoses when re-analyzed a year later.
–HudsonAlpha—redoing whole genome on previous exomes – 16% increase in diagnosis
• Pharmacogenomics
–Available for the rest of the patient's life
–Better Quality by the right drug at the right dose at the right time.
–Real-time always up to date
HUDSONALPHA
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Impact of Diagnostic Error

- Institute of Medicine just reported **5%** of Diagnoses are errors = on average physician **makes 62** misdiagnoses per year!
- **10%** of deaths **and 6%** to **17%** of admissions due to misdiagnosis.
- Leading reason for malpractice claims.

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Whole Exome Sequencing
Whole Genome Sequencing
HudsonAlpha
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Accepted Path to Translation
BENCH
T1
BEDSIDE
T2
PATIENTS
T3
PRACTICE
T4
PUBLIC HEALTH
Can we invent a solution to a health problem?
Could the invention work in humans?
Does it benefit patients?
Can it be delivered reliably in practice?
Does it improve public health?
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& Director, Center for Integrative Genomics, G
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