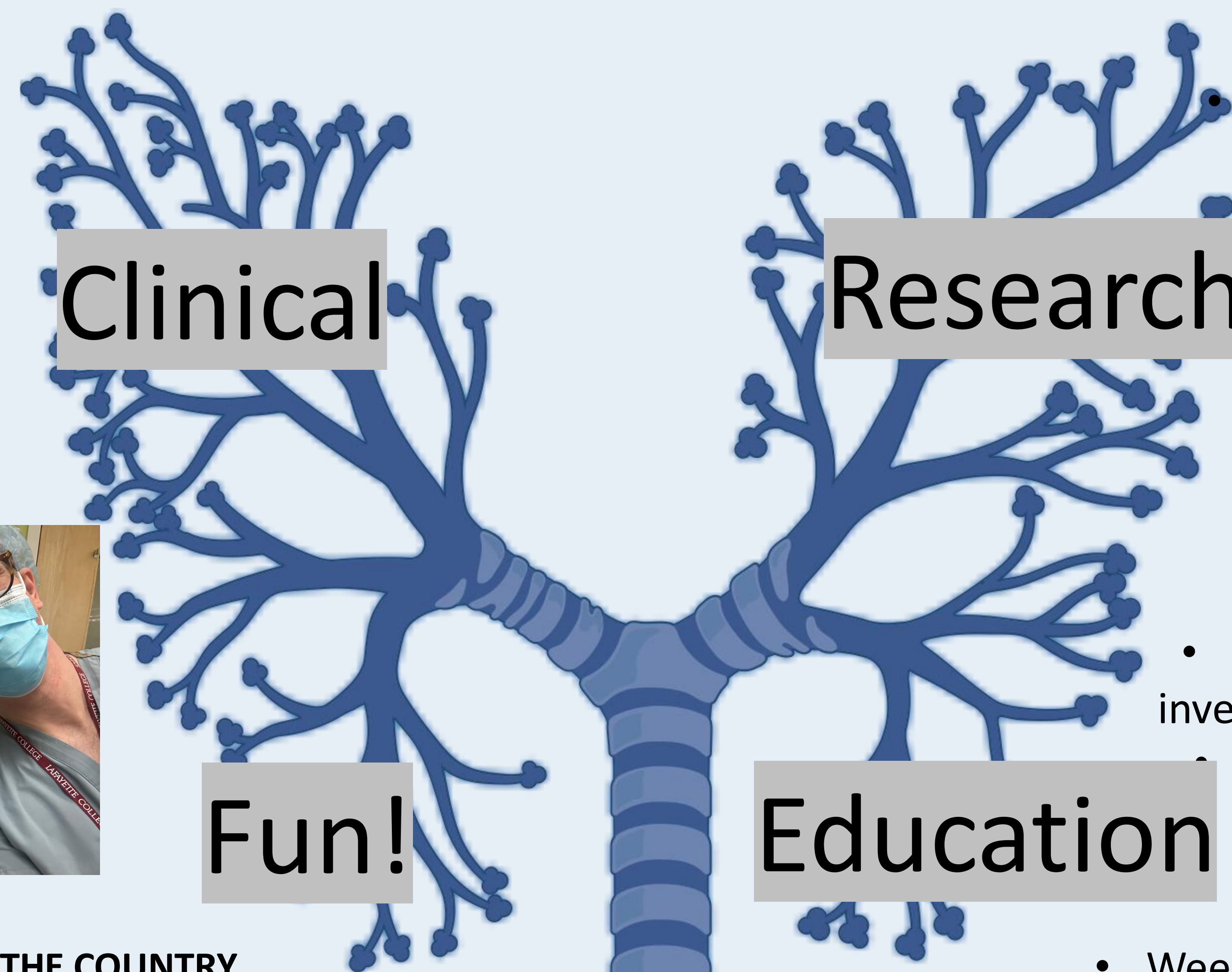




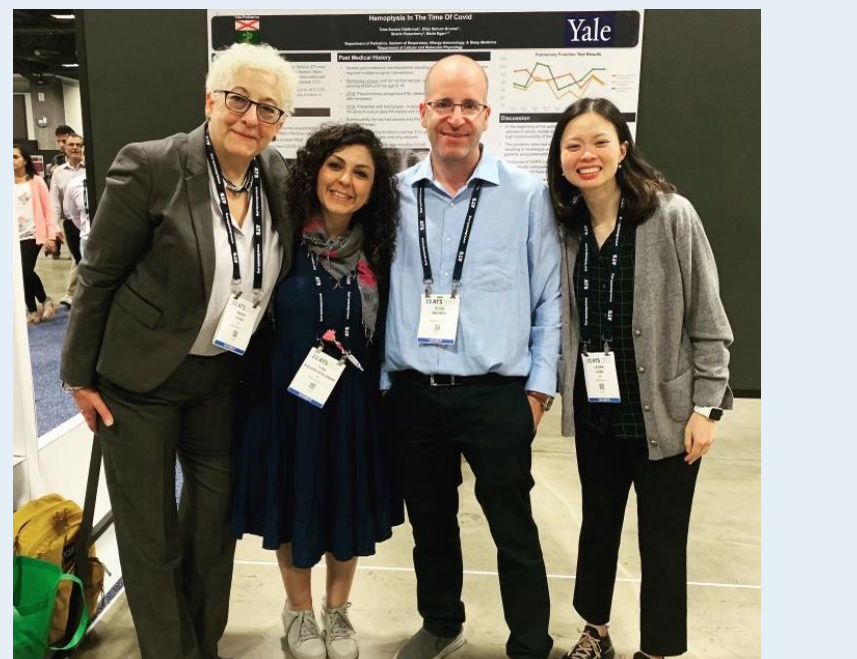
# Yale Pediatric Pulmonology Fellowship



- Diverse faculty and patient population
  - Tertiary academic center
  - Sleep medicine fellowship
- Interdisciplinary subspecialty clinics: CF, aerodigestive, asthma, neuromuscular, sleep, and more!
  - 300+ bronchoscopies per year
- Electives: Interventional bronchoscopy, allergy/immunology, radiology, SLP, and more!
  - Flexible fellow schedules



- Our fellows' interests:**
- Profiling sputum immune cells in patients with CF using scRNA seq
    - Masters in medical education
      - Sleep actigraphy in PICU
  - Quality improvements in management of complicated pneumonia, BPD, asthma
    - Advocacy!
  - T21 funding opportunities
  - NIH and CFF funded research mentors
  - Advanced degree options (MPH, MedEd, MHS, investigative medicine program that can lead to a PhD)
  - Research opportunities across Yale University

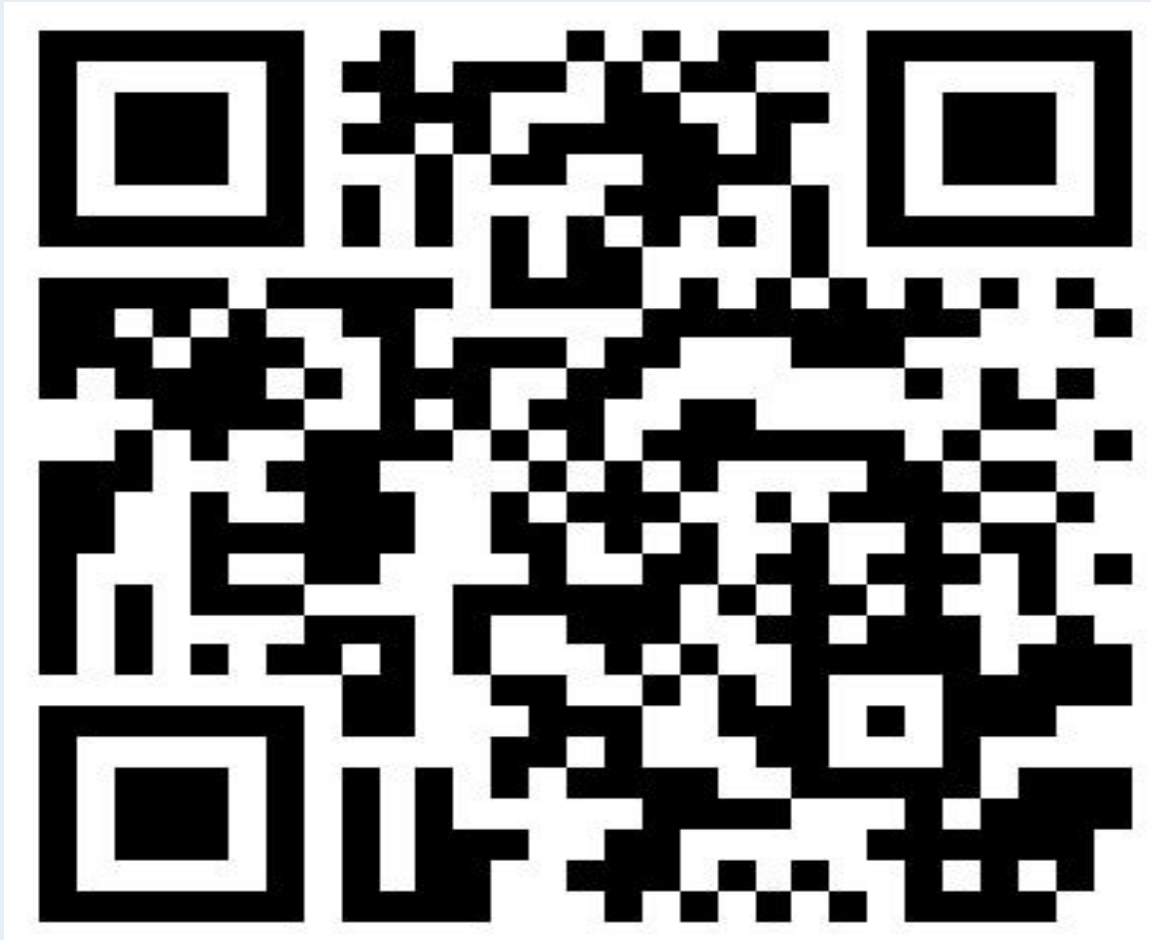


- **BEST PIZZA IN THE COUNTRY**
  - New Haven: NYTimes Top 50 places to visit
- Affordable northeast coastal living close to major cities
- Beaches, sailing, hiking, biking, and wine trails. Access to world class museums, theaters, and music concerts

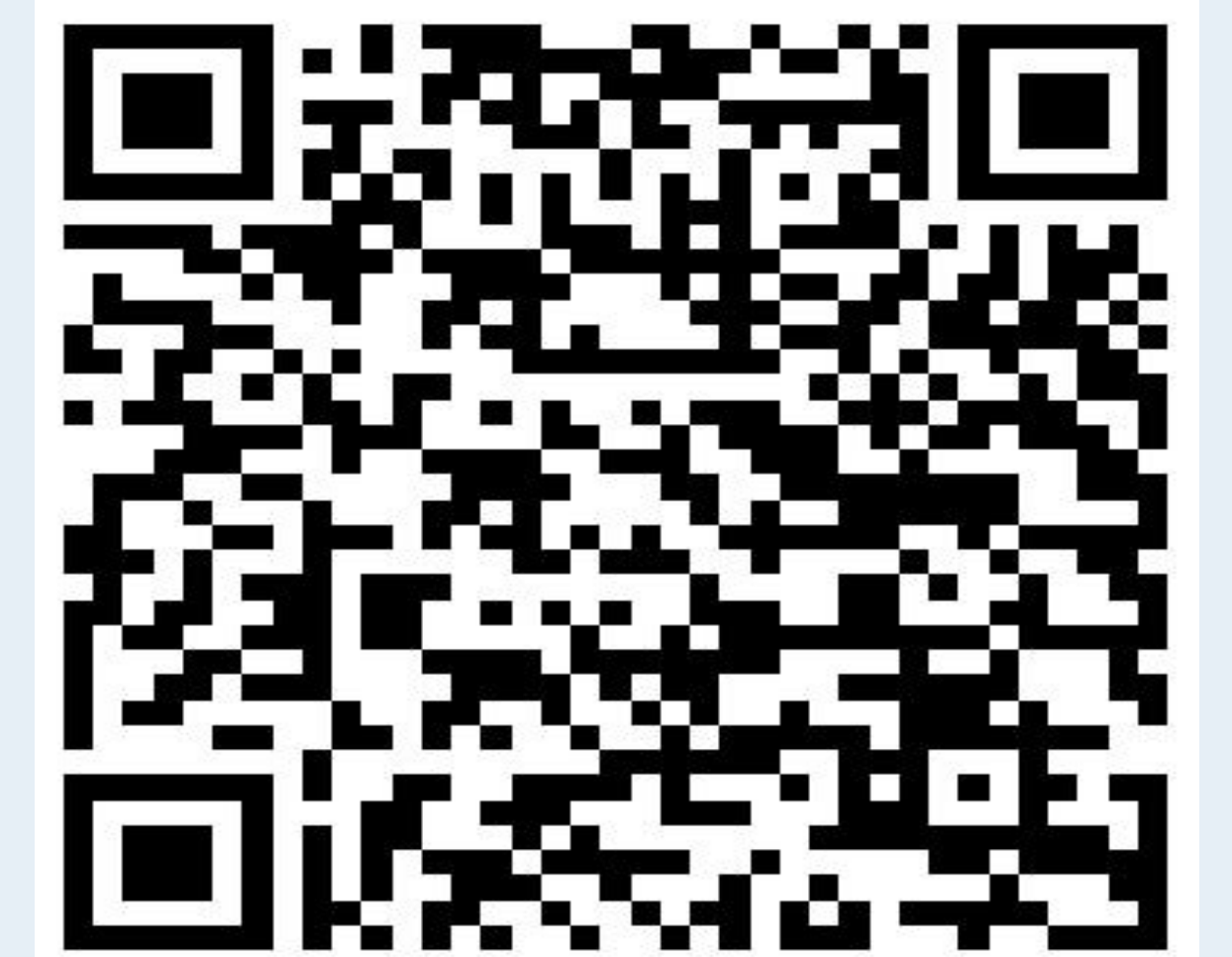


- Weekly fellow seminars dedicated to career development
  - Summer bootcamp
- Fellows as Medical Educators (FAME) program
- Four scholarly pathways: QI, global health, MedEd, and investigative research

Yale Peds Instagram



Fellowship Website



## Program Leadership

Division Chief: Marie Egan

[marie.egan@yale.edu](mailto:marie.egan@yale.edu)

Program Director: Laura Chen

[laura.chen@yale.edu](mailto:laura.chen@yale.edu)

Program Coordinator: Phyllis Miller:

[phyllis.miller@yale.edu](mailto:phyllis.miller@yale.edu)

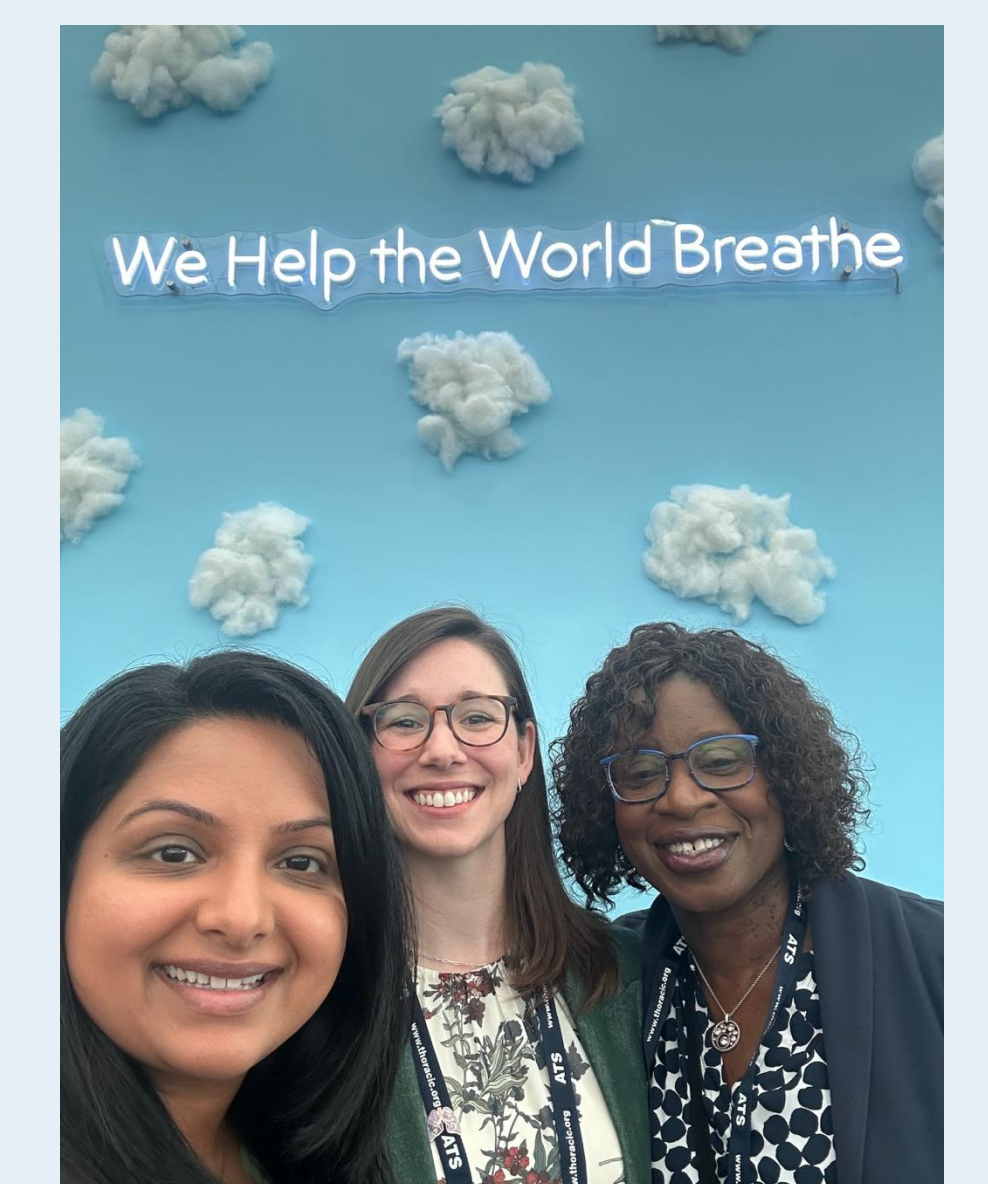
YaleNewHavenHealth

Yale New Haven Children's Hospital



THE ROSEBALL  
CYSTIC FIBROSIS FOUNDATION

Yale University  
Yale New Haven Health  
Yale New Haven Hospital



## Pediatric Pulmonology Fellowship

**Mission Statement:** Train pediatricians from **diverse backgrounds** to be **outstanding pulmonologists** who are 1) skilled clinicians with a foundation in physiology, 2) critical thinkers, 3) avid teachers, and 4) physicians who improve care via scholarship and programmatic development

### Who we are



2025 Fellowship Retreat

#### Division Snapshot

- 37 Faculty
- 18 Full Clinicians
- 11 Clinician-Scholars
- 8 Faculty Scientists
- Well established clinical programs
- Aerodigestive, BPD, CF, PCD, Chronic ventilation, CDH, Sickle Cell, EILO, Neuromuscular, and more!



#### Research

- Seattle Children's Center for Respiratory Biology and Therapeutics (CRBT) launched in 2024
- >\$38M funding in FY2023
- >125 Publications in 2024



#### Traditions

- Summer Party
- Holiday Party
- Photo shoots
- Mariners games
- ATS Seattle Night
- March Madness
- Happy Hours



#### Program Leadership

Division Head: Terri Laguna, MD  
Fellowship Director: Jon Cogen, MD MPH  
Associate Director: Laura Ellington, MD MS  
Program Coordinator: Elysia Belcher



### Clinical highlights

#### Requirements

- Inpatient service: 18 weeks Year 1, 8 weeks each Years 2/3
- Night call: Weekend night coverage when on service only, Weeknights 1-2/month when not on service
- Continuity clinic when not inpatient
- Sleep rotation (4 weeks)
- Cardiac ICU (2 weeks)
- Aerodigestive OR days starting Y1

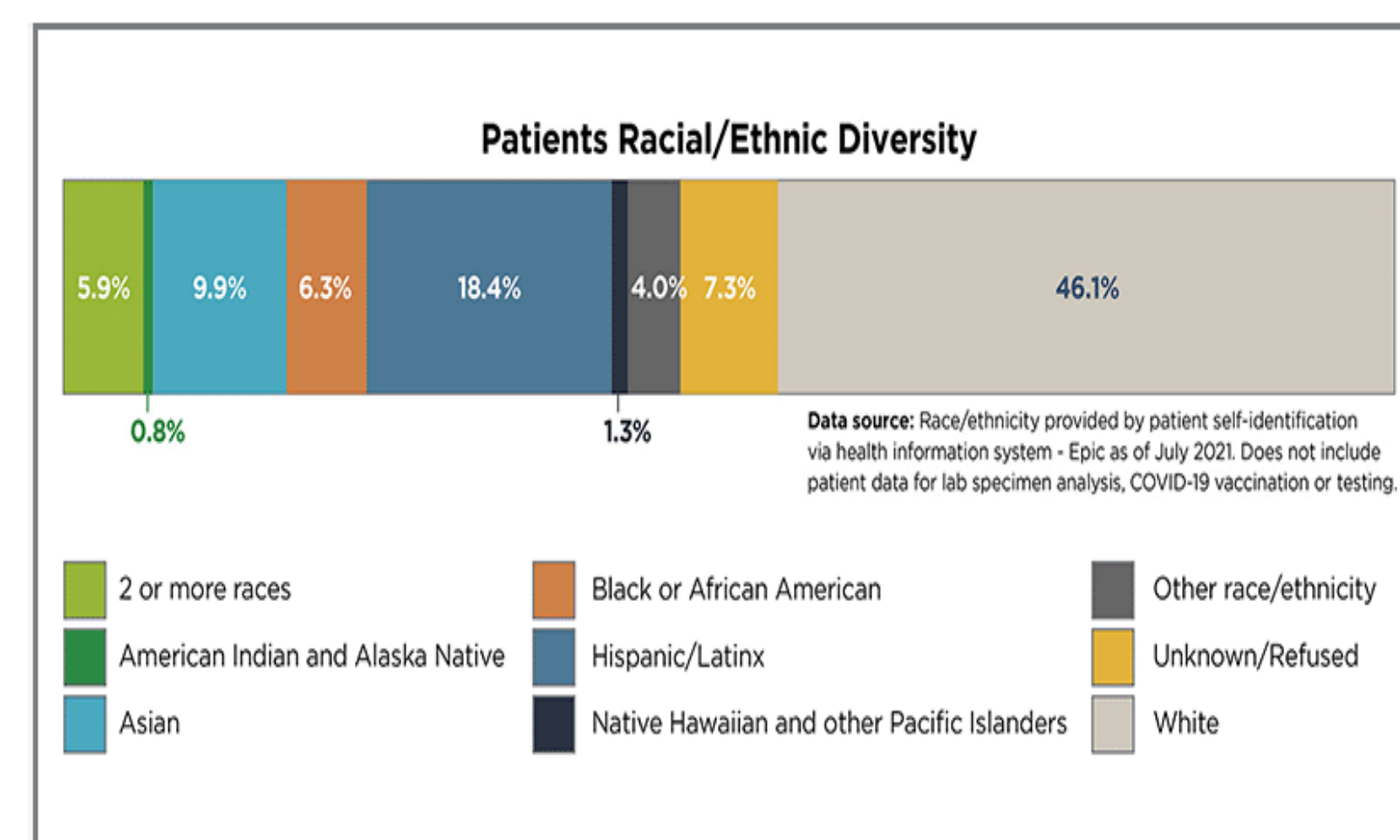


#### Tailored clinical training

- Wide breadth of sub-specialty clinics & sites
- Learn from our unique WWAMI population
- Outreach opportunities in rural Alaska, Eastern WA, & regional sites



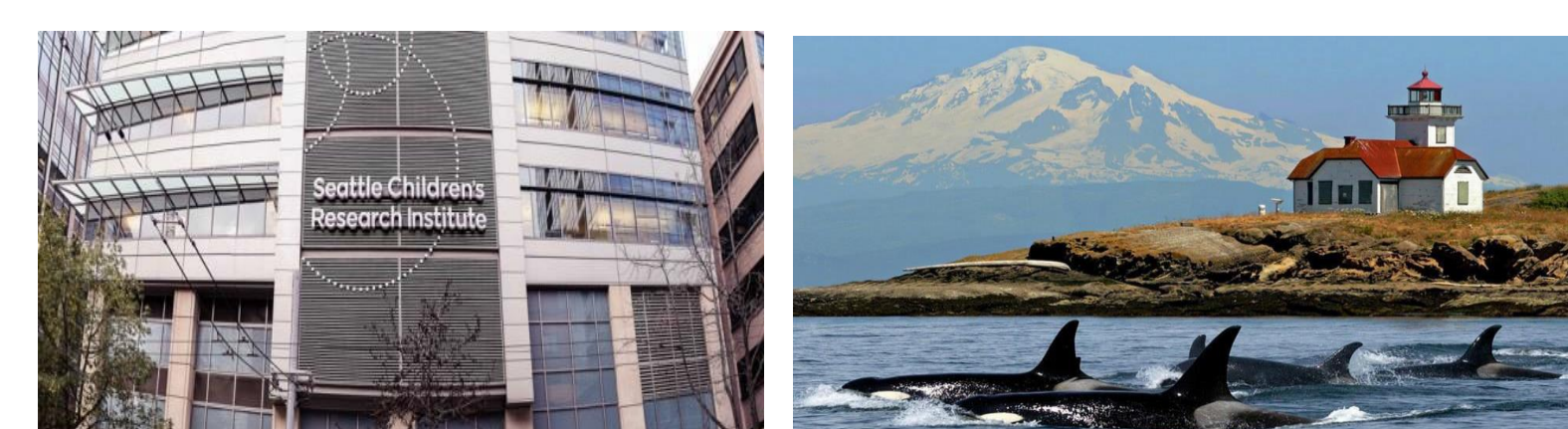
### Equity, Diversity, & Inclusion



- Highly committed to creating an environment inclusive to all people, patients, and families regardless of background or life experiences
- EDI training curriculum includes seminars, lectures, and journal club topics
- Scholarship opportunities working with experts in EDI & health disparities

#### Local Organizations & Resources

- Pulmonary & Sleep Division EDI Task Force
- UW Center for Health Equity, Diversity, & Inclusion
- Pediatrics Justice, Equity, Diversity, & Inclusion (JEDI) Committee
- UW Network for Underrepresented Residents & Fellows (NURF)



### Scholarship Opportunities



- Internationally renowned faculty mentors and leaders with a wide breadth of expertise and interests
- Subsidized coursework
- Research funding for all fellows
- Conference & travel funds available
- Track record of receiving funding during fellowship (CF Foundation, Thrasher, Firland Foundation, etc.)



### Program Highlights

- An "academic playground" tailored based on individual interests
- Culture of collaboration, curiosity, and support
- Faculty-Fellow Dinners & funded wellness activities
- Protected learning time
- Robust physiology core curriculum + weekly didactics
- Integrated professional development
- Educational conferences
- Fellowship retreat
- Night call Very unique aspect of our program!; Mon-Fri PM call from 7p-7a each night by "off-service" fellow/faculty

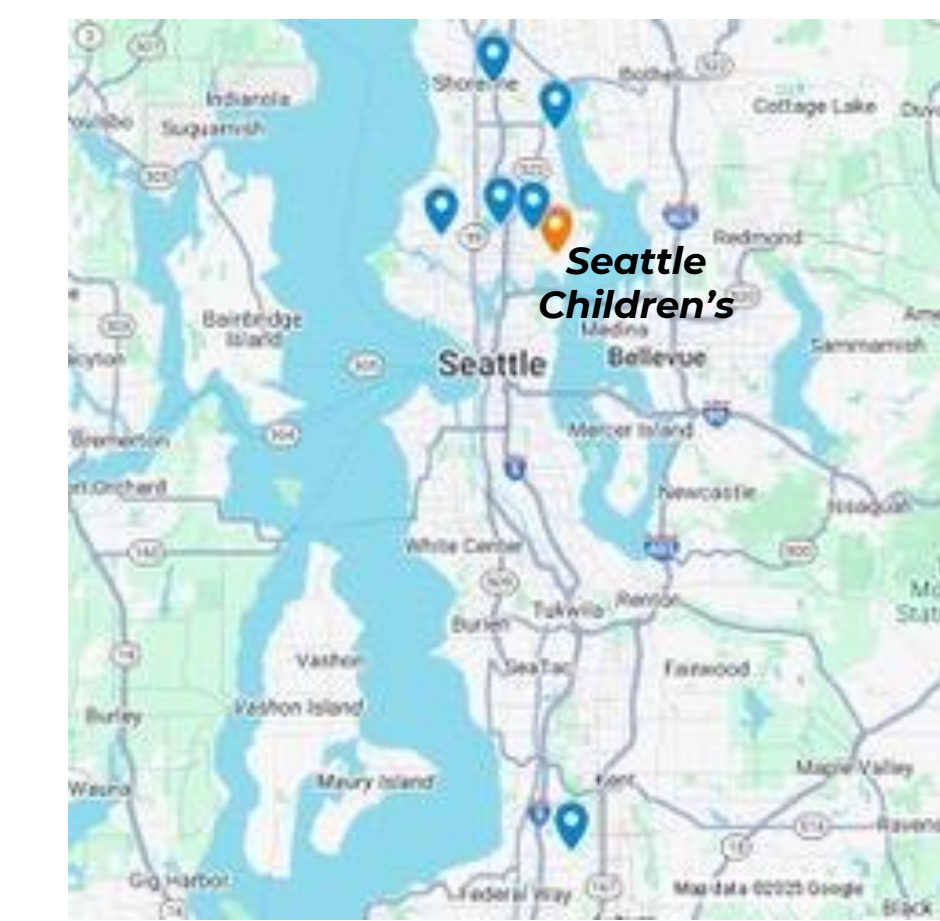


Fellows in rural Alaska



Escape room--so close!

### Fellow life



Where our current fellows live



#### The Great PNW

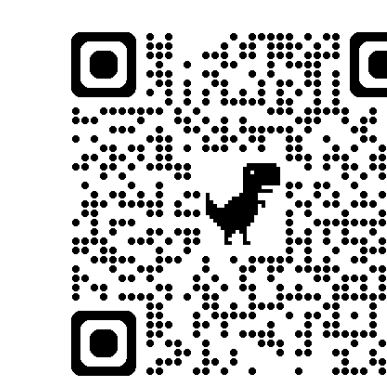
- Stunning mountain views in the city
- Nature access: Green spaces, hiking, biking, & skiing regardless of skill level
- Farmer's markets, bakeries, coffee shops, and local breweries everywhere
- Strong local & national scene for the arts
- Professional sports teams & rec leagues



- Fellows join us from all over the country
- Jobs after fellowship in the last 2 years range from full clinical positions to physician scientists and in between.

### Program Perks

- UW Housestaff Union
- Free meals
- Free GME Wellness Services
- UW Childcare support
- Professional Development Funds
- Free parking
- Gym



### Learn more!

@UWPedsPulm  
**Jon Cogen MD MPH**  
[jonathan.cogen@seattlechildrens.org](mailto:jonathan.cogen@seattlechildrens.org)  
**Laura Ellington, MD MS**  
[laura.ellington@seattlechildrens.org](mailto:laura.ellington@seattlechildrens.org)  
**Becca Smith**  
[becca.smith@seattlechildrens.org](mailto:becca.smith@seattlechildrens.org)

**Apply now for a Funded Visiting Resident Elective for Pediatric Pulmonary!!**





# Johns Hopkins Eudowood Division of Pediatric Respiratory Sciences

## Fellowship in Pediatric Pulmonology



JOHNS HOPKINS  
CHILDREN'S CENTER

### Overview

- One of the best and most comprehensive fellowships in the nation
- A broad clinical, research and educational experiences for fellows, all of which are personalized
- Fellow-centered and supportive program responsive to feedback
- Graduates have launched successful careers at academic centers across the nation

### Clinical Training

Inpatient Training	Outpatient Training	Procedures	Electives
<ul style="list-style-type: none"> <li>• Coordinating inpatient service with housestaff</li> <li>• Managing the consult service (NICU, PICU, BPD consultations)</li> <li>• Overnight call from home</li> <li>• Service balanced over 3 years</li> </ul>	<ul style="list-style-type: none"> <li>• Averages 1-2 half days per week when not on service</li> </ul> <p>Clinics:</p> <ul style="list-style-type: none"> <li>• Fellow's clinic</li> <li>• Aerodigestive</li> <li>• Severe Asthma</li> <li>• Cystic Fibrosis</li> <li>• Bronchopulmonary Dysplasia</li> <li>• Neuromuscular</li> <li>• Sleep</li> </ul>	<p>Bronchoscopy</p> <ul style="list-style-type: none"> <li>• 75-100 cases during training</li> <li>• OR and ICU</li> <li>• Bronchoscopy Training Course</li> <li>• Simulated Bronchoscopy</li> </ul> <p>Study Interpretation</p> <ul style="list-style-type: none"> <li>• PFTs</li> <li>• Exercise Studies</li> <li>• Apnea Monitors</li> <li>• Sleep Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Subacute Vent/NIPPV management</li> <li>• Immunology/ILD</li> <li>• Interventional Bronchoscopy</li> <li>• Pulmonary Hypertension Clinic</li> <li>• Adult Lung transplant</li> <li>• Advocacy</li> <li>• Tobacco Cessation</li> <li>• ENT</li> <li>• Global Health</li> </ul>



### Research

- Opportunities for research in basic science, clinical, translational, ethics, public health, global health, economics, etc.
- Fellows work on 1-2 projects throughout their fellowship with opportunities for publishing, presentations, grant writing, etc.
- Many of our fellows have not done research before, but we provide mentorship/resources
- Johns Hopkins School of Medicine
  - Top recipient of NIH funding
  - Dozens of core labs, animal facilities, interdisciplinary centers, etc.



### Recent Fellow Research Projects

Use of Digital Stethoscope in Diagnosis of Pneumonia in Low resource settings

Respiratory outcomes in neonatal lung disease and mono-allelic abca3 variants

Socio-economic determinants of health in asthma

Nutritional Outcomes in CF and SES

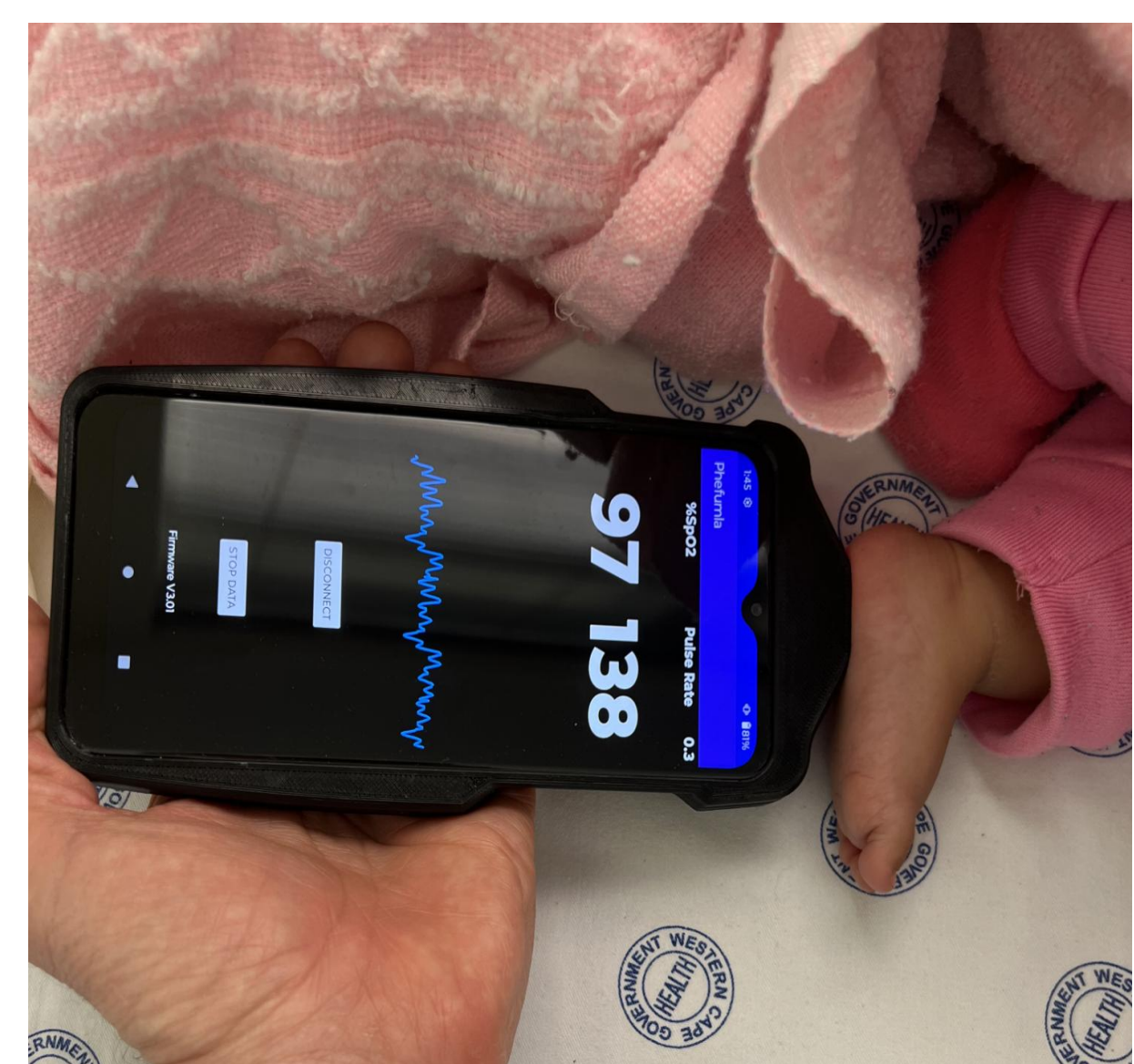
Tracheostomy Caregiver Decision-Making

Geospatial Mapping of Asthma Exposures

Long-Term Outcomes of BPD

Health Economics and Asthma

Toxic Metal Exposure from Electronic Cigarette Use



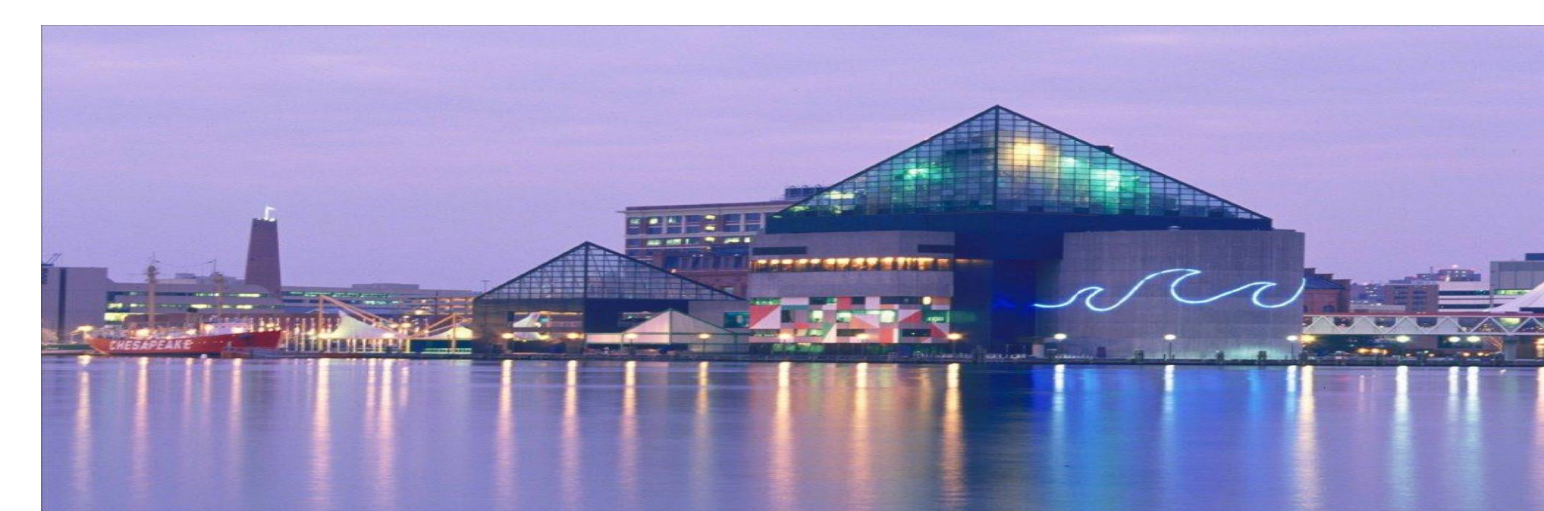
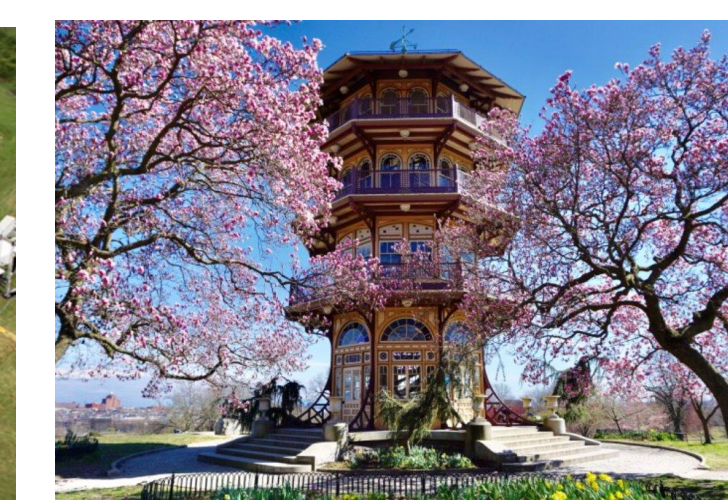
### Education

Division	Department of Pediatrics	School of Medicine	School of Public Health
<ul style="list-style-type: none"> <li>• Conference (weekly)</li> <li>• Board review (weekly)</li> <li>• Radiology rounds (8x/year)</li> <li>• PFT lectures</li> <li>• QI project</li> <li>• Career development</li> <li>• National conference (paid)</li> </ul>	<ul style="list-style-type: none"> <li>• Weekly grand rounds</li> <li>• Weekly case conference</li> <li>• Biostat and Epi support (BEAD core)</li> <li>• Diversity and career development seminars</li> </ul>	<ul style="list-style-type: none"> <li>• Grant writing workshop</li> <li>• Research ethics workshops</li> <li>• Simulation center</li> <li>• Cystic fibrosis seminars</li> <li>• Adult pulmonary lectures</li> <li>• Welch medical library</li> </ul>	<ul style="list-style-type: none"> <li>• Biostats courses</li> <li>• Epidemiology courses</li> <li>• Optional MHS degree</li> <li>• Ranked 1<sup>st</sup> public health in the U.S. (USNWR 2024)</li> </ul>

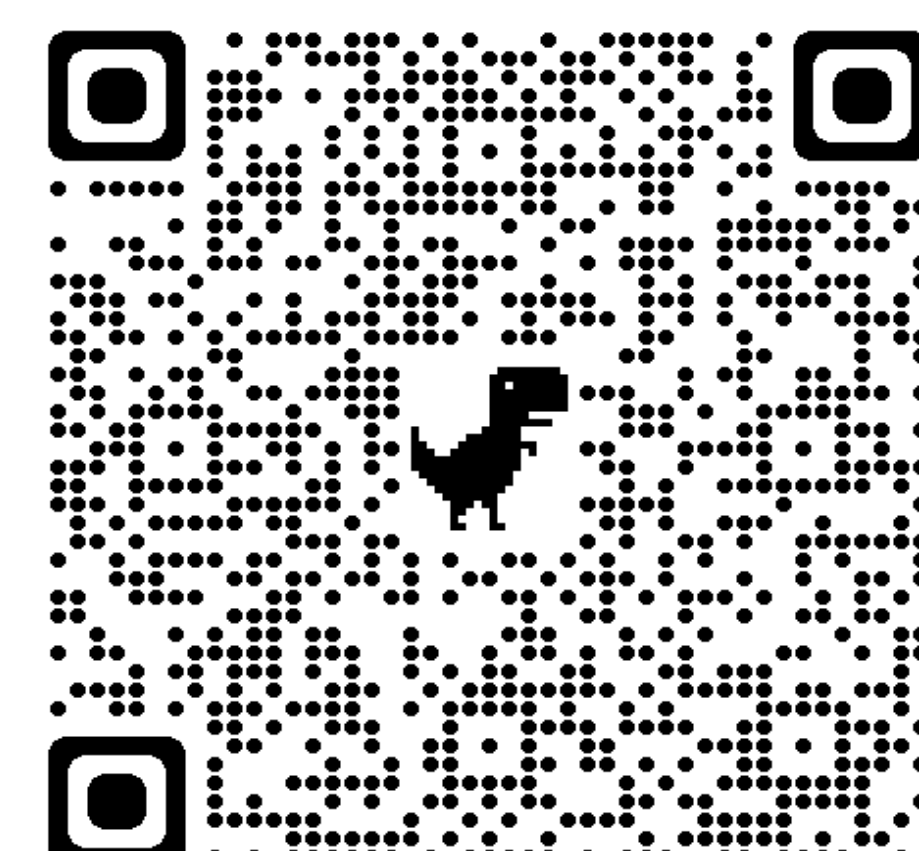


### Benefits and Life In Baltimore

Standard Benefits	Division	Institution
<ul style="list-style-type: none"> <li>• Healthcare (including dental/eye) for fellow and dependents</li> <li>• Life insurance</li> <li>• 403b retirement plan</li> <li>• NIH T32 child care benefit (\$2500 per year)</li> </ul>	<ul style="list-style-type: none"> <li>• Research mentors</li> <li>• Clinical mentors</li> <li>• "Safe" faculty contact outside the division</li> <li>• Sleep (fatigue) policy</li> <li>• Social events (lunches)</li> </ul>	<ul style="list-style-type: none"> <li>• Wellness events</li> <li>• DEI Council, events</li> <li>• Childcare voucher</li> <li>• Back-up child care (partial subsidy 10 days per year)</li> <li>• Lactation support</li> </ul>



Our website:





Boston Children's Hospital

Where the world comes for answers

# Pediatric Pulmonology Fellowship



HARVARD MEDICAL SCHOOL  
TEACHING HOSPITAL

**Alicia Casey, MD, Program Director**  
**Laura Chiel, MD, Associate Program Director**  
**Magan Zecena, Program Manager**

### Current Overview

- 13 fellows in program: 4 first year fellows, 5 second year fellows, 3 third year fellows, 1 fourth year fellow
- 5 incoming fellows starting July 2026
- Two fellows are currently completing a combined pediatric/adult pulmonary fellowship (BCH/BWH)
- Three fellows are pursuing MPH degrees; one fellow is enrolled in the Health Affairs Elective Program

### Sample Weekly Conference

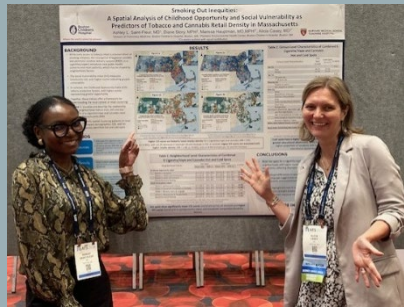
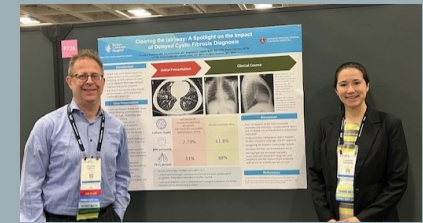
- Monday:** Pulmonary Grand Rounds, 12PM-1PM
- Tuesday:** Research Works in Progress, 12PM-1PM; Pulmonary Fellowship Physiology, October-June (once a month), 2:30PM-4PM
- Wednesday:** New England Pulmonary Consortium, 7:30AM-8:30AM; Pediatric Grand Rounds, 12PM-1PM
- Thursday:** Fellow's Seminar, 11AM-12PM; Pulmonary Division Case Conference/M+M, 12PM-1PM

### Rotation Summary

- Inpatient:** Admitting service for patients with acute and chronic respiratory diseases including asthma, cystic fibrosis, chronic lung disease of prematurity, interstitial lung disease, complicated pneumonia, pleural effusions, pneumothoraces, congenital malformations, and many other pediatric respiratory conditions.
- Consults:** Provides consultative services to all programs and services within Boston Children's Hospital.
- Transplant/NICU:** The transplant fellow cares for patients pre and post lung-transplant. The Neonatal Intensive Care Unit consult service providing consultation to neonates at Brigham & Women's Hospital and Beth Israel Deaconess Hospital with respiratory issues including bronchopulmonary dysplasia, interstitial lung disease, sleep disordered breathing, and other causes of neonatal lung disease.
- Bronchs/PFTs:** The Bronchoscopy Service performs greater than 700 bronchoscopic procedures each year. Each first-year fellow will generally perform >100 bronchoscopies in their first year of training. Fellows work with an attending physician to interpret pulmonary function tests performed in our laboratory.
- Chronic Respiratory Failure:** New rotation that began this academic year that is designed to enhance fellow education in chronic respiratory failure in partnership with Franciscan's Children's Hospital, a post-acute care rehabilitation facility.

### Current 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year Fellow Main Research Projects

- Noga Arwas, MD: "A Cohort-Based Phenotypic Risk Score Quantifies Phenotypic Similarity Among Bronchiectasis Patients"
- Alec Girtan, MD: "Entering into the Nicotine Free Generation: Community Perspectives on Novel Legislation"
- Elizabeth Moss, MD, PhD: "Hypoxia Induces Adaptive Lymphangiogenesis via Cd74 and Vegfr3 to Modulate Pulmonary Hypertension"
- Gabriel Paris, DO, MS: "Pediatric Lung Transplant Refusals: A Single Center Retrospective Analysis"
- Karin Plaza Lazo, MD: "Transcriptomic assessment of BPD mouse model and cellular therapy"
- Joanne Kim, MD: "Tracheostomy Tube Downsizing: The Importance of Outer to Inner Diameter Ratio in Flow Resistance"
- Ashley Saint-Fleur, MD: "Smoking Out Inequities: A Spatial Analysis of Social Vulnerability and Childhood Opportunity as Predictors of Tobacco Retail Density in Massachusetts"
- Chandra Swanson, MD: "Strengthening respiratory healthcare capacity in resource-constrained settings"
- Taylor Baumann, MD: "Lung Function in Pediatric Non-cystic Fibrosis Bronchiectasis Patients Compared to Cystic Fibrosis Patients: A 20-year Retrospective Cohort Study"



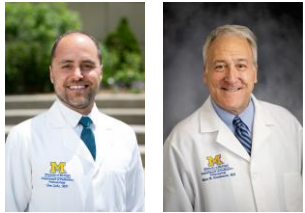
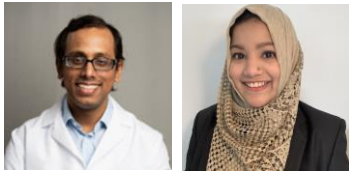


# MICHIGAN PEDIATRIC PULMONOLOGY FELLOWSHIP



## Program people

- 2 fellowship slots per year
- 12 pulmonologists
- 12 nurse practitioners



## Program specifics

- # 1 children’s hospital in Michigan
- Global health elective in Egypt
- Concurrent Masters degree in Clinical Research, Bioinformatics, others
- Concurrent Scholars Programs: medical education, healthcare administration, healthcare disparities
- Opportunities for blended training (pulm-sleep, pulm-hospitalist, pulm-critical care)
- Many clinical programs: asthma, CF, home ventilator, PCD, bronchoscopy, ChILD, aerodigestive, pulmonary hypertension, others
- Innovative bronchoscopy simulation training
- NIH-funded research mentors



## Program Culture

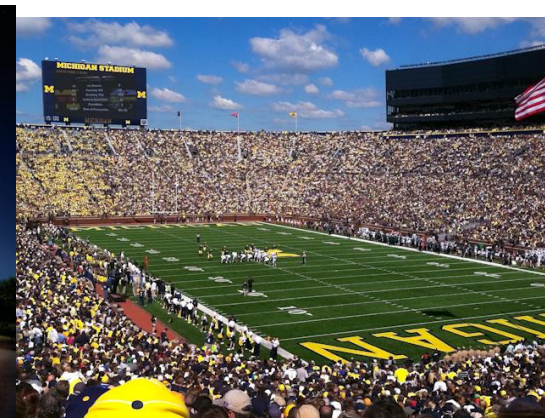
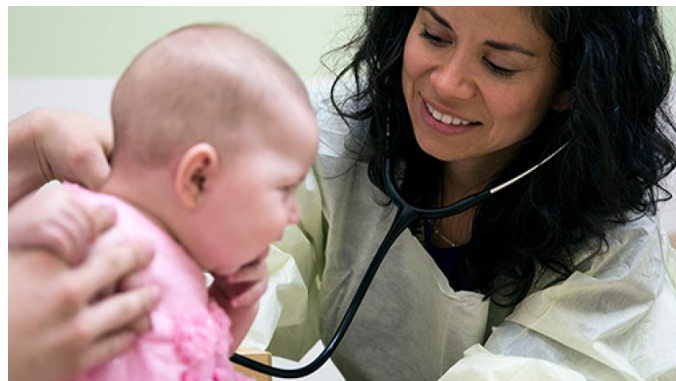
- Commitment to developing personalized training pathways

## Institution Culture

- Diversity, equity and inclusion are strongly valued

## Geographic area

- Ann Arbor is consistently voted one of the best places to live in the US



# Pediatric Pulmonology Fellowship at Riley Children's Health & Indiana University School Of Medicine

Indianapolis, Indiana

## About the Fellowship Program

- Faculty are dedicated to exceptional training and mentorship preparing future academic leaders.
- Exposure to complex pathophysiology, diverse patient interactions, and cutting-edge research experience with direct mentorship from NIH and CFF funded physician scientists.
- Fellows and faculty with diverse backgrounds are committed to promoting inclusive and equitable healthcare.
- Our culture promotes community and a sense of belonging to support each individuals' well-being.
- Graduates develop careers as clinician educators or physician scientists both nationally and internationally in wide range of settings.



## Learn More About Our Fellowship Program!



### Program distinctions

- Second largest CF program in the nation and only core program in Indiana accredited by the CF Foundation.
- One of 9 pediatric centers in the nation to earn accreditation as a PH Care Center by the Pulmonary Hypertension Association.
- Longest running Severe Asthma Program in the country.
- Interdisciplinary BPD Program affiliated with the BPD collaborative and CHNC Severe BPD Special Interest Group.
- National referral center for PCD.
- Other nationally recognized interdisciplinary clinics including Home Vent, Aerodigestive, Neuromuscular, Sickle Cell Disease.



25,000+  
ADMISSIONS AND  
OBSERVATIONS



475  
BEDS

65+  
PEDIATRICIANS

+ 615+  
SPECIALISTS ACROSS  
40+ SPECIALTIES

Providing care close to home in  
**22**  
communities throughout Indiana

ACS-VERIFIED LEVEL I  
PEDIATRIC TRAUMA CENTER  
AND LEVEL I CHILDREN'S  
SURGERY CENTER

ABA-VERIFIED  
BURN PROGRAM

**212**  
RESIDENTS AND FELLOWS

MATERNITY TOWER to care for mom and baby together under one roof

1 Level IV NICU

1 Level III NICU



Riley Children's Health  
Indiana University Health



Verified Level I  
Children's Surgery  
Center



AFFILIATED WITH



IU SCHOOL OF MEDICINE DEPARTMENT OF PEDIATRICS ranked **6<sup>th</sup>** in the nation for NIH research funding

To learn more, scan the QR code to view our annual report or visit [rileychildrens.org/annualreport](http://rileychildrens.org/annualreport).





# Pediatric Pulmonology

*University of Arizona*

Rees "Chip" Lee, MD  
Program Director



## About Us

- Located in beautiful Tucson, AZ
- 5 Peds Pulmonary Physicians
- 1 Ped Sleep Medicine Physician
- Diamond Children's Medical Center
- Cystic Fibrosis Center
- HRSA-funded Pediatric Pulmonary Center
- Asthma & Airways Disease Research Center
- Southwest Environmental Health Sciences Center

## Why Choose Us

Small program with demonstrated clinical and research excellence.

- Daily close collaboration with faculty.
- Academic and research focus
- Easy availability to research mentors
- Physically located on same campus as University of Arizona

"Coming to Arizona was the best professional decision I ever made. Small program with great people excelling in research and clinical science."

**Wayne Morgan, MD**

*Associate Program Director*

## How Can We Help You



### Clinical

Entire spectrum of pulmonary disease with ample opportunities for bronchoscopies and other procedures.

### Research

Access to world-renowned researchers on same campus as children's hospital.

### Education

Access to entire UA academic offerings.  
Opportunity to take classes at Public Health School.  
Work closely with Pediatric Residents to develop your teaching skills.

## Contact Us



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Coordinator

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Program  
Director

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(757) 647-9151

<https://peds.arizona.edu/fellowship/pulmonary-medicine>

