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About Us: BCM PSP

• OUR MISSION

To provide excellent pediatric clinical training in the context of a pathway to scientific independence through intensive mentoring, guidance, and educational programming and a roadmap to preparedness. The program strives to train future academic pediatricians to provide superb care to children, engage in meaningful innovation through basic or clinical research, and mentor and train the next generation of pediatrician-scientists.



OVERVIEW

Baylor College of Medicine is proud to offer a new research track for qualified candidates that have been approved by the American Board of Pediatrics. The Pediatrician-Scientist Program (PSP) is an ideal career choice for MD or MD/MD-PhD graduates who are considering a career as a principal investigator or a pediatrician-scientist. As the largest children's hospital and department of pediatrics in the United States, there is a strong commitment and priority to providing expert clinical training and educational opportunities in the context of formal research progression towards becoming an independent investigator.

STRUCTURE

PSP residents will commit to the ABP-Integrated Research Pathway (ABP-IRP), which is a 3-year, residency-training program that will link to the categorical residency program to fulfill the ABP requirements. The program is designed to create a clear pipeline from residency to a junior faculty appointment by offering a myriad of educational experiences, research opportunities, and career development guidance. PSP residents will participate in the following components to promote their development as clinician-scientists: Academic Scholarship, Academic Enrichment Activities, and Mentoring. These components will be specific to each year in the program.

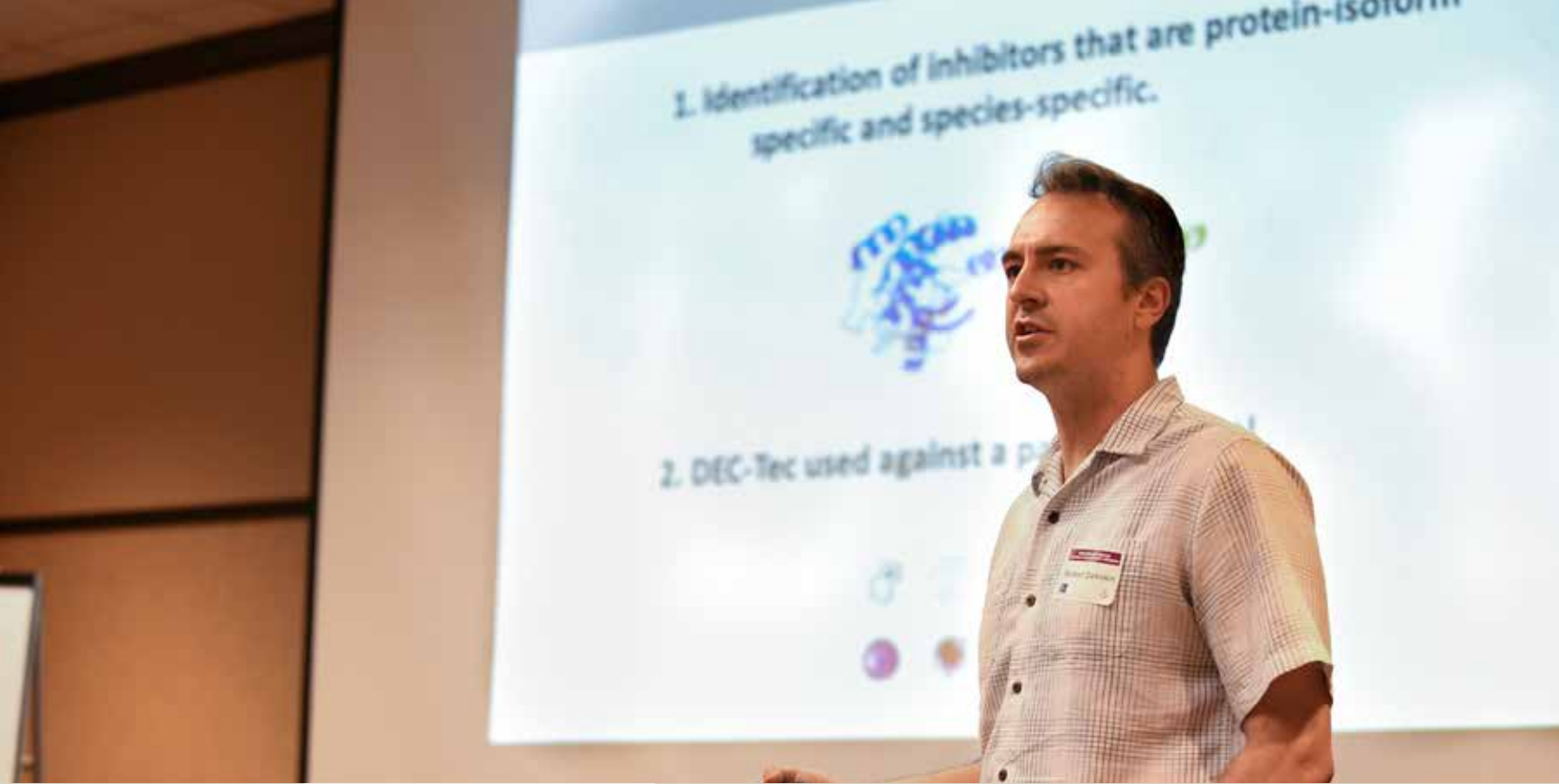


AMERICAN BOARD OF PEDIATRICS– INTEGRATED RESEARCH PATHWAY

The ABP-IRP track allows pediatric residents the opportunity to complete 11 months of research starting in the PL-2 year and involving most of the PL-3 year while also completing 22 months of core clinical pediatric residency. All PSP residents will fulfill all pediatric categorical residency program requirements.

Upon acceptance into the program, candidates are required to commit to this pathway within their intern year.

The Residency Program Director and PSP leadership will closely monitor fulfillment of both the pediatric categorical and PSP requirements. The Resident's Individualized Advisory Committee (RIAC) will also meet regularly to assess the resident's progress through the ABP-IRP pathway. The RIAC will consist of the Residency Educational Mentor, Primary Research Mentor, Clinical Case Mentor, Residency Program Director, PSP Associate Program Director, and other relevant faculty.



OBJECTIVES •

ENGAGE

talented MD or MD/PhD graduates committed to careers in academic medicine and the field of pediatrics

PROVIDE

extensive road mapping and customized experiences to PSP residents to allow for an unprecedented dual training in clinical and research efforts

CREATE

a multifaceted, long-term mentoring structure to support trainees during their transition from residency to fellowship and, ultimately, junior faculty



“The amount of support that we get as pediatrician-scientists in training was clear to me from the beginning, with every level of the program and administration invested in supporting our research and clinical education.”

– Xavier Rios Villanueva, MD, PHD

PROGRAM STRUCTURE

• PROGRAM COMPONENTS

I. COMPREHENSIVE MENTORING PROGRAM

Mentorship in PSP entails the assignment of a Residency Educational Mentor, Primary Research Mentor, and a Resident Individualized Advisory Committee throughout the duration of the residency training.

RESIDENCY EDUCATIONAL MENTOR. The Residency Educational Mentor (REM) is a faculty member committed to a substantive and long-lived relationship with the resident, who will serve as a role model for navigating and balancing a career as both a scientist and a pediatrician. To this end, the relationship between the PSP resident and the residency educational mentor includes formal monthly meetings, bi-annual meetings after completion of the PSP and can assist with career advising and tracking of graduate activities. This is a **long-lived mentorship** that continues throughout fellowship and into junior faculty years to foster long-standing **collaborations** and professional **collegiality**.

PRIMARY RESEARCH MENTOR. Selected by the PSP resident, research during the **protected research blocks** will be conducted in the laboratory of the Primary Research Mentor (PRM). PRMs are to be chosen from the targeted area of clinical and research interest that most closely aligns with that of the PSP resident. The PRM can hold a PhD, MD, or MD/PhD degree. As the PSP resident **transitions to fellowship** and a **career as a pediatrician-scientist**, the PRM can serve as a **long-standing mentor** and collaborator in the field.

CLINICAL CASE MENTOR. To provide **guidance**, mentorship, and **expert advice** in the area of **clinical interest** for completing the clinical case report. Each PSP resident will be assigned a Clinical Case Mentor (CCM).

Resident Individualized Advisory Committee Meetings

RIAC meetings will serve as a forum to formally discuss the progress of each PSP resident. Members of the RIAC include the REM, PRM, CCM, and PSP leadership plus any relevant research collaborators. The purpose of the RIAC meeting is to provide a **supportive** and **constructive environment** to discuss **individual** progress in meeting both categorical and PSP program milestones and goals. They will be held biannually throughout the entire PSP program.

II. PARALLEL EDUCATION PROGRAM

The parallel education program is focused upon providing the necessary knowledge and perspective to **flow** through the academic pipeline, **develop** an investigative program, and **achieve success** in a K-series career development NIH application. Key components of the PSP parallel educational program will include the following:

- **Full participation** in the categorical residency educational program to fulfill ABP-IRP requirements.
- **Alternative Didactic Noon Conference.** These sessions focus on academic and professional development.
- **Pediatrician-Scientist Forum.** This forum is required for all residents and will be held monthly to feature the career narrative and science of a pediatrician-scientist.
- **Orientation retreat.** Held annually, this specific retreat is for all PSP residents and reviews program structure and encourages peer collegiality and interaction.

**DIDACTIC NOON
CONFERENCE**

**PEDIATRICIAN-
SCIENTIST FORUM**

**ORIENTATION
RETREAT**

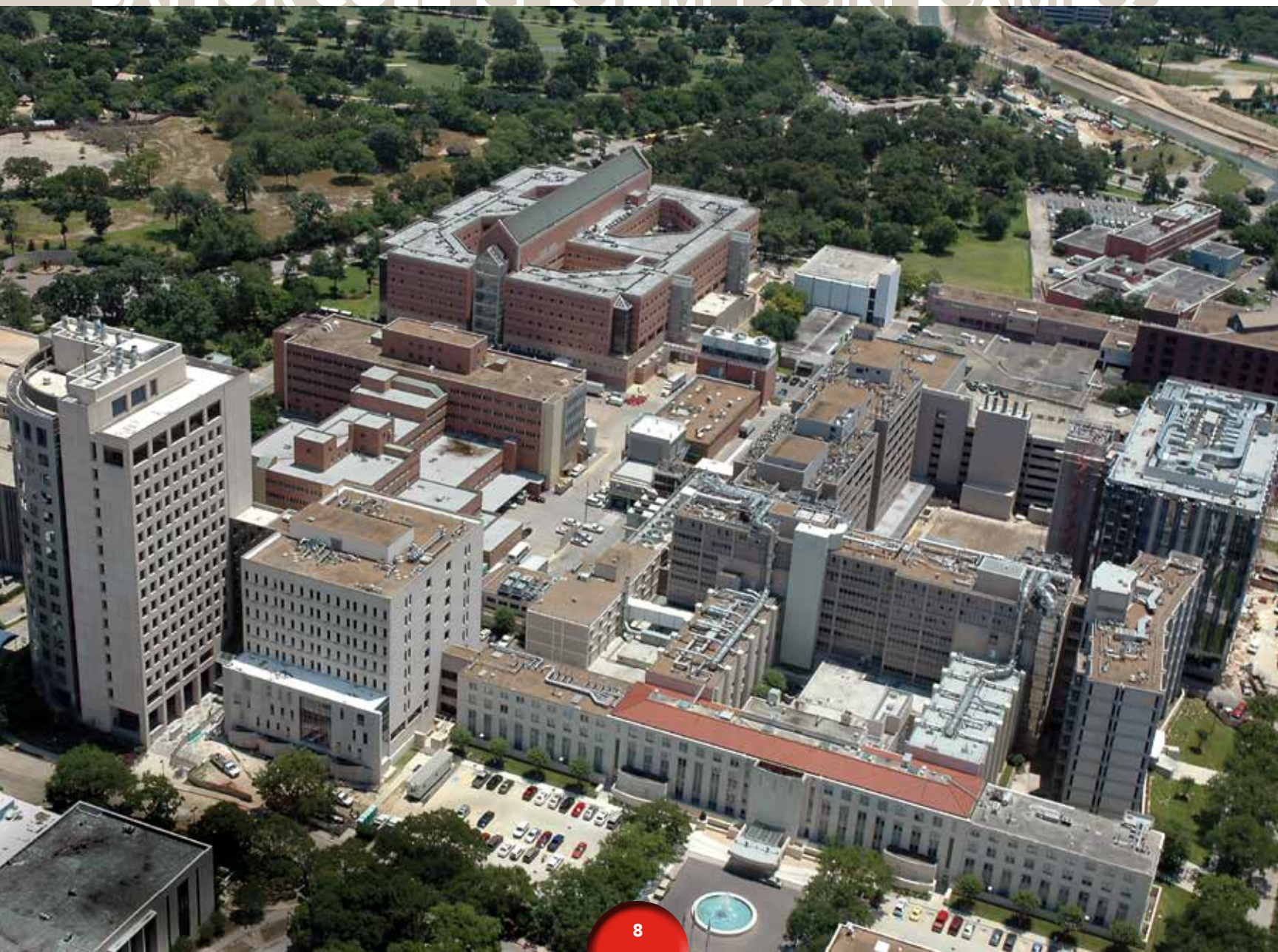


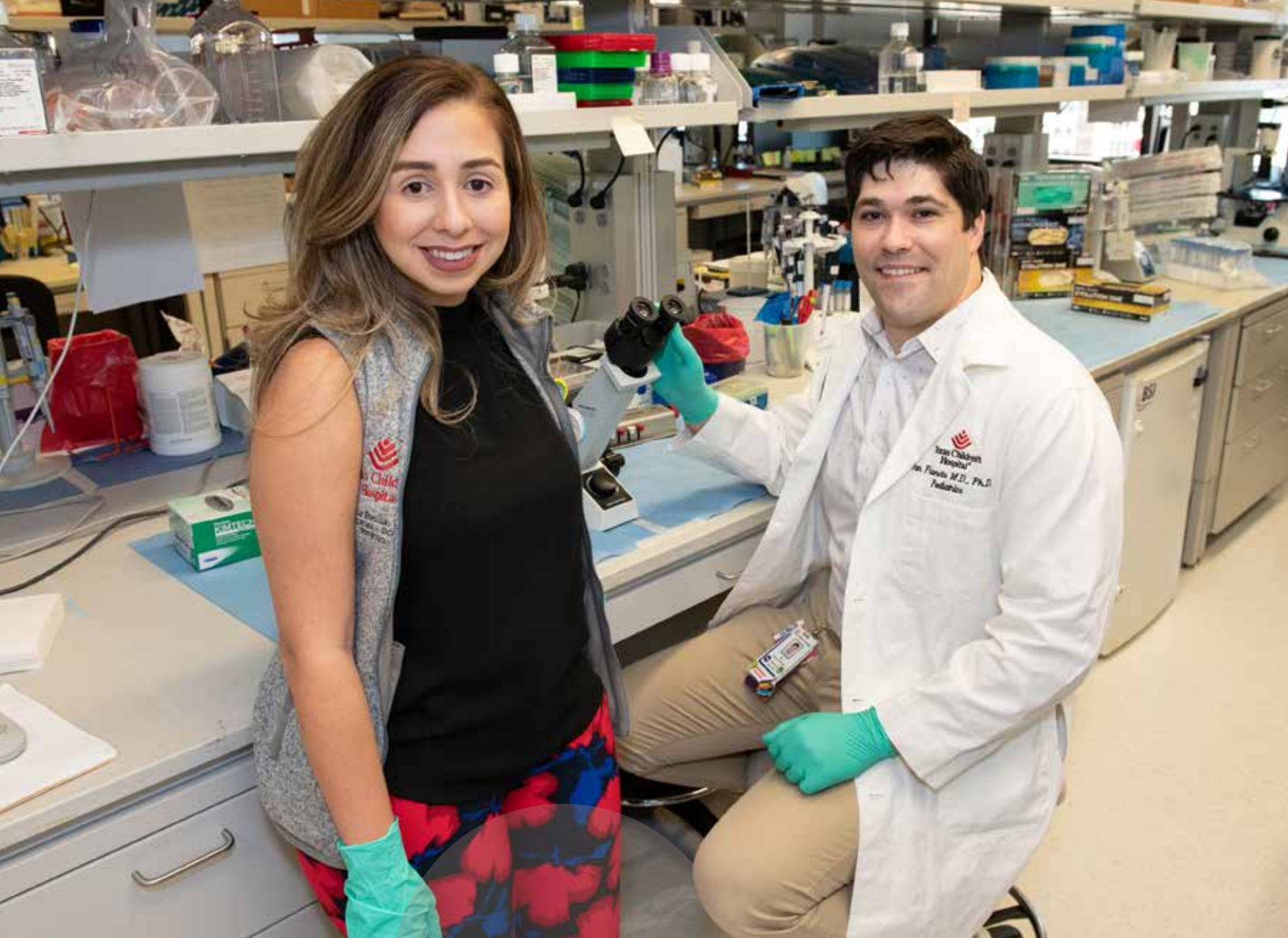
III. PILOT GRANTS PROGRAM

The Pilot Grants Program helps to promote continual planning and development of allocated research time and effort along with providing strongly mentored exercises in grant writing.

All PSP residents are strongly encouraged to apply for and obtain a pilot grant through the PGP, which will be used in support of their research. Applications for the PGP are evaluated in a mock study section held within the PSP, which will also provide an additional experience of value in understanding what is important in constructing a grant application and gaining insight into the review process. Finally, the ability to receive an award and manage a research budget is an integral part of succeeding in research and is something that PSP program leadership will oversee and provide mentoring.

BAYLOR COLLEGE OF MEDICINE CAMPUS





IV. SCHOLARLY PUBLICATION GOALS

Building the academic CV in preparation for competitiveness for K-series funding is a necessary priority of the PSP. This will include a rational publication stream targeted at justifying the candidate as a developing academic. The scholarly expectations are aligned to promote engagement in the proposed area of research, but also for true engagement in the pediatrician-scientist portion of training and are specific to each year of the program.

YEAR 1

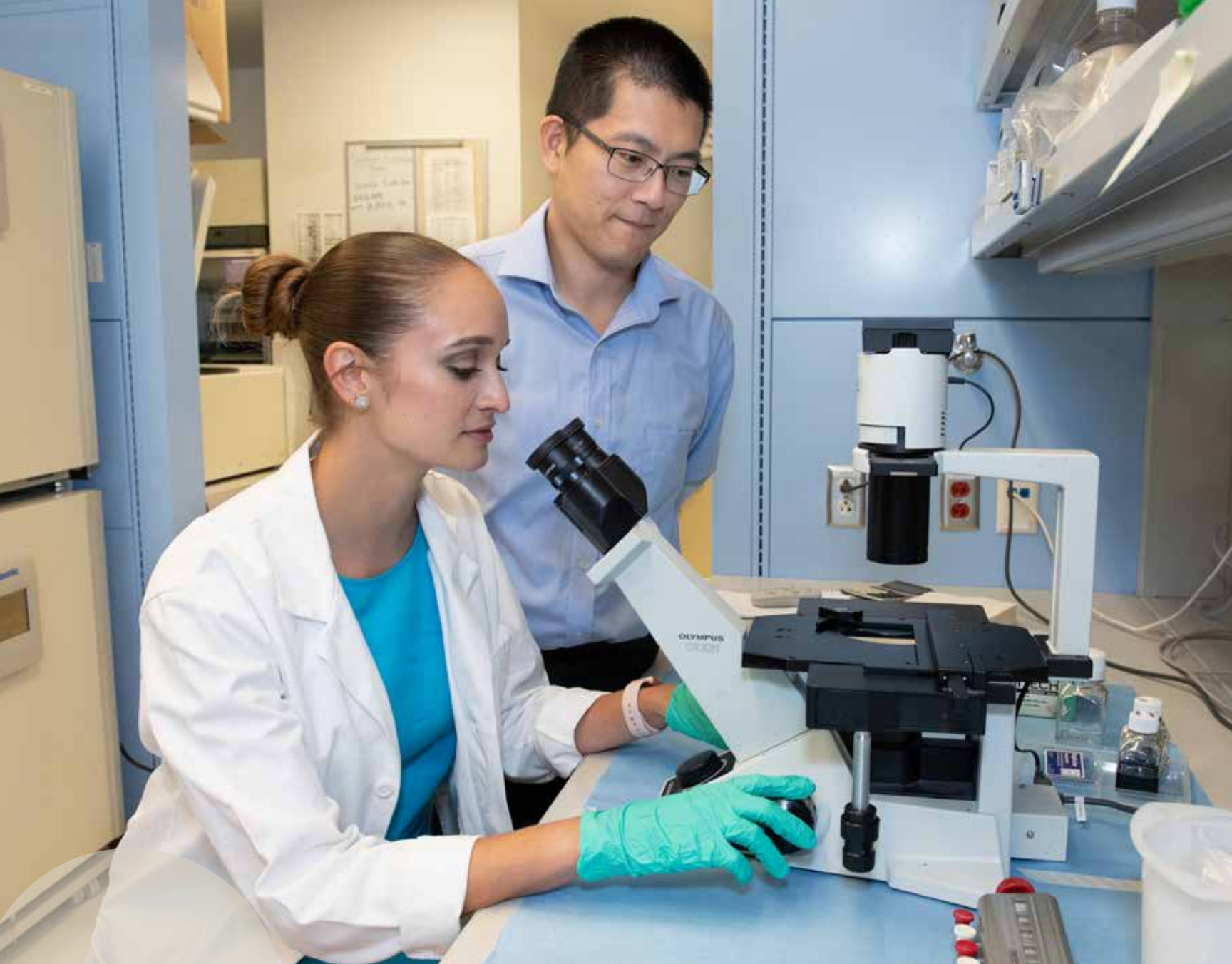
PSP residents are supported in publishing a case report in a clinical area connected to their targeted research area in order to align their development as a pediatrician-scientist in a specialized clinical topic. This represents valuable exposure to clinical science and clinical publishing and the insight derived from that experience will enhance the residents ability to truly academically integrate clinical medicine and investigation.

YEAR 2

PSP residents are supported in generating and submitting a scholarly review and a grant through the internal PSP pilot grants program in the area of research related to the proposed topic of research that begins in block 6 of PL-2.

YEAR 3

PSP residents are supported in the publication of an abstract, a primary research article of original resident research, for presentation at a national meeting and broader scientific publication as appropriate. PSP residents are also encouraged to submit the candidate section of a K-award, which supports the building of the K-award application.



V. PROGRAM TIMELINE

PL-1 – PL-3

In PGY-1 and PGY-2 years, PSP residents experience a truncated clinic rotation schedule, which will allow for a full year of research to be conducted—in part during PGY-2, but predominantly in PGY-3. Careful road mapping occurs before the beginning of PGY-1 and throughout the program to allow for optimized scheduling and to ensure that all applicable training is completed before each trainee enters into a subspecialty fellowship program.

Subspecialty

As PSP residents advance to fellowship, fellows may potentially be eligible for full or partial salary support through NIH-sponsored T-32 grant opportunities within

Baylor College of Medicine and Texas Children's Hospital. During fellowship, independent research projects that have been established during residency can be strengthened and expanded to support continued grant submissions and research career development. There are a number of departmental and institutional grant award opportunities that PSP fellows will be quite competitive for after completing research and educational program milestones built into the program.

The Department of Pediatrics Fellowship Program is engaged in the PSP and is collaborating in creating PSP pathways to independence.

PROGRAM TIMELINE

	ACTIVITY	RESIDENCY				SUBSPECIALTY			
		PRE-PL-1	PL-1	PL-2	PL-3	YEAR 1	YEAR 2	YEAR 3	
I MENTORSHIP	Professional Development	Residency Education Mentor (REM) Pairing	Apr.						
		PSP Peer Mentor Program Pairing (PMP)	Jun.						
		Clinical Case Mentor (CCM) Identification	Jun.						
		Primary Research Mentor (PRM) Selection		Jun.					
		Annual Orientation Retreat Attendance	Jun.	Jun.	Jun.	Jun.	Optional	Optional	Optional
	Parallel Education Program	Alternative Didactic Noon Conference (Monthly)		Jul.-May	Jul.-May	Jul.-May	Optional	Optional	Optional
		Pediatrician-Scientist Forum Seminar (Monthly)		Jul.-May	Jul.-May	Jul.-May	Optional	Optional	Optional
Thoughtful Pairings	Pairing with BCM Medical Student During Rotations		*Oct.-Jun.	*Oct.-Jun.	*Oct.-Jun.				
II RESEARCH	Development	Residency Education Mentor (REM) monthly meetings		Jul.-Jul.	Jul.-Jul.	Jul.-Jul.	(Bi-annual)	(Bi-annual)	(Bi-annual)
		Formalizing RIAC Committee Members with PSP Leadership		Oct.					
		Bi-annual RIAC Progress Meetings		1st (Mar.) 2nd (Jun.)	1st (Dec.) 2nd (Jun.)	1st (Dec.) 2nd (Jun.)			
	Research	Clinical/Basic Investigative Research			Sep-Oct.**	Jul.-Sep.** Nov.-May**			
III SCHOLARSHIP	Grants	PGP: Internal Grant: Submission of Pilot Grant Program (PGP) Applications			Jan.				
		PGP: Mock Study Section-Pilot Grant Review			Jan.				
		PGP: Study Section Decision Announcement			Jan.				
		K Award: Submission of Candidate Section of NIH K Award in a Mock Study Section				Mar.			
		K Award: Review and Feedback of NIH K Candidate Section				Mar.			
		K Award: NIH K Award Grant Submission						Spr.-Sum.	
	Publication Goals	Clinical Case Report		May					
		Scholarly Review Article			Jun.				
		Primary Research Article				May			
	Scientific Conference Program (SCP)	Specialty Society or Pediatric National Meeting Identification			Jul.				
		National Meeting Abstract				Dec.			
		National Meeting Attendance				Spr.-Sum.			

FOOTNOTES

* Assignments will be communicated before start of rotation pairing a PSP resident with a research-oriented BCM medical student

** Laboratory research will occur during Block 6 of PL-2 and for 10 continuous blocks in PL-3 year.

Current RESIDENTS

• **GRADUATING
CLASS OF 2026**

Tiffany King, MD, PHD

Christopher Peek, MD, PHD





TIFFANY KING, MD, PHD

Research Interests: I'm interested lung injury in sickle cell disease.

How does the PSP support your career development? The PSP helps support my career development through structure programming and networking that allows me to hear from pediatric scientists. I'm also supported through regular meetings with mentors and advisor committee creates for discussion of my ideas for my future with feedback and assistance in determining what next steps I should take.

Undergraduate Institution: The University of North Carolina at Chapel Hill

Graduate Institution: The Ohio State University College of Medicine, Department of Biomedical Sciences

Medical School Institution: The Ohio State University College of Medicine

Current Year In PSTDP: PL-1

E-mail: tiffany.king@bcm.edu

Hometown: Charlotte, NC

Fellowship Program: Pulmonology, Hematology/Oncology

CHRISTOPHER PEEK, MD, PHD

Research Interests: I am broadly interested in microbial-host interactions at the interface of mucosal immunology and microbiology. I hope to better understand how infection, inflammation, and antimicrobial therapies mechanistically alter interactions between the gastrointestinal system and hematopoiesis.

How does the PSP support your career development? The Baylor Pediatrician-Scientist Program has been integral to my development as a future physician-scientist. The leadership team has supported my research and clinical interests through individualized mentorship pairings within my field of interests. Additionally, the Baylor PSP has provided protected time for establishing research connections, resources for presenting work at national conferences, and support for publications and grant writing. As someone new to the Houston area, the Baylor PSP has made the transition to a new city as smooth as possible and welcomed me into a fantastic new family.

Undergraduate Institution: Davidson College

Graduate Institution: Vanderbilt University School of Medicine

Medical School Institution: Vanderbilt University School of Medicine

Current Year In PSP: PL-1

E-mail: christopher.peek@bcm.edu

Hometown: Nashville, TN

Fellowship Program: Infectious Diseases



“Because Houston is such a diverse city with a large population, we have the opportunity to learn from and treat patients with rare diseases. As a pediatrician-scientist, taking care of patients with rare diseases presents a unique opportunity for translation of basic science and clinical medicine.”

– Emily Heikamp, MD, MSc, PHD

Current RESIDENTS

GRADUATING CLASS OF 2025

Sathi Wijeyesinghe, MD, PHD



SATHI WIJEYESINGHE, MD, PHD

Research Interests: My doctoral research focused on the homeostasis of mucosal immunity, particularly tissue-resident CD8+ T cells. I am interested in understanding how human resident T cells develop in early life and the development of mucosal vaccines that may exploit local cell-mediated immunity.

How does the PSP support your career development? The PSP offers considerable protected time during residency for scientific inquiry and fosters a community of fellow physician scientists.

Undergraduate Institution: University of Maryland – College Park

Graduate Institution: University of Minnesota

Medical School Institution: University of Minnesota

Current Year In PSTDP: PL-2

E-mail: sathi.wijeyesinghe@bcm.edu

Hometown: New York, NY

Fellowship Program: Allergy & Immunology

GRADUATING CLASS OF 2024

Audra Iness, MD, PHD

Jimmy Chang, MD, PHD



AUDRA INESS, MD, PHD

Research Interests: My PhD degree is in Clinical and Translational Research but my dissertation work focused on cancer genetics. Given my interests in Pediatric Emergency Medicine or Critical Care Medicine, I plan to integrate elements of my prior broad experiences, including clinical trial design and reductionist approaches, with machine learning to address clinical problems within the emergency department or critical care settings. I look forward to learning more ways of asking and answering questions.

How does the PSP support your career development? As a pediatrician scientist trainee pursuing a non-traditional clinical path, I am grateful for the leadership who are invested in me achieving my goals. BCM is the place where “Texas-sized” dreams are welcomed and the outstanding personalized mentoring provided here is the key to success.

Undergraduate Institution: Smittcamp Family Honors College at California State University, Fresno, Fresno, CA

Graduate Institution: Virginia Commonwealth University Center for Clinical and Translational Research, Richmond, VA

Medical School Institution: Virginia Commonwealth University School of Medicine, Richmond, VA

Current Year In PSTDP: PL-3

E-mail: audrainess@bcm.edu

Hometown: Fresno, CA

Fellowship Program: Baylor College of Medicine, Genetics

JIMMY CHANG, MD, PHD

Research Interests: Applying metabolic analysis to dissect disease mechanism.

How does the PSP support your career development? I got paired up with excellent mentor, who helped connect me to faculties working on different aspects of my future interests. Additionally, he is also instrumental in talking with me through my career plans and give great suggestions on how to strategize each step.

Undergraduate Institution: Washington University in St. Louis, St. Louis MO

Graduate Institution: Northwestern University, Chicago, IL

Medical School Institution: Northwestern University, Chicago, IL

Current Year In PSP: PL-3

E-mail: jimmy.h.chang@bcm.edu

Hometown: Taipei City, Taiwan

Fellowship Program: Baylor College of Medicine, Genetics



Program ALUMNI

- **CLASS OF 2023**

Marimar De La Cruz Bonilla, MD, PHD
Ian Francis, MD, PHD



MARIMAR DE LA CRUZ BONILLA, MD, PHD

Research Interest: I plan to specialize in hematology-oncology and am interested in oncology research. As of now I have not identified what I'll end up working on long term however I plan to start working with CAR T-cell therapies for my PSP project.

How does the PSP support your career development? Having protected time to think and work on what will eventually become our PSP project is truly one of the best parts of my training. Additionally having access to mentors that guided me in finding a lab to join was pivotal in my development as a pediatrician scientist.

Undergraduate Institution: University of Puerto Rico, Mayagüez, Puerto Rico

Graduate Institution: UT MD anderson UT Health Graduate School of Biomedical Sciences, Houston, Texas

Medical School Institution: University of Puerto Rico School of Medicine, San Juan, Puerto Rico

E-mail: marimar.delacruzbonilla@bcm.edu

Hometown: Arecibo, PR

Fellowship Program: Baylor College of Medicine, Hematology/Oncology

IAN FRANCIS, MD, PHD

Research Interest: I am fascinated by the interplay of the human immune system and bacterial infections, particularly those which cause invasive critical illnesses. I am currently exploring the molecular determinants of increased virulence in a specific sequence type of Group B Streptococcus. I hope that through a better understanding of these pathogens and their interaction with our defences, more effective rational therapies can be developed to reduce morbidity and mortality in our pediatric ICUs.

How does the PSP support your career development? PSP is a tight community of pediatrician-scientists that provides invaluable guidance and support as I work to mature as both a clinician and researcher. Through both formal and informal avenues, PSP has helped me make the necessary connections to develop my scientific project during residency and create relationships that will aid in my future career.

Undergraduate Institution: University of Denver, Denver, Colorado

Graduate Institution: Boston University, Boston, Massachusetts

Medical School Institution: Boston University, Boston, Massachusetts

Current Year In PSTDP: PL-3

E-mail: Ian.Francis@bcm.edu

Hometown: Denver, CO

Fellowship Program: Nationwide Children's Hospital, Critical Care Medicine



Natalie Guerrero, MD, PHD

Yike Jiang, MD, PHD

Prasanna Ramachandran, MD, PHD

• CLASS OF 2022

NATALIE GUERRERO, MD, PHD

Research Interests: I am interested in research focused on health disparities that impact vulnerable populations, including economically-disadvantaged, racial/ethnic minority, and immigrant populations and poverty research with implications for reducing disparities.

How does the PSP support your career development? Connecting with my residency education mentor prior to starting residency, and now meeting with him monthly, has encouraged me to work on identifying a primary research mentor very early on in residency. With the structure of the program, I am also taking steps to develop a case report and will have dedicated time later this year to prepare it for publication. I look forward to participating in the pilot grants program and to having dedicated research time during PL-3 year.

Undergraduate Institution: Pomona College

Graduate Institution: University of Wisconsin School of Medicine and Public Health

Medical School Institution: University of Wisconsin School of Medicine and Public Health

E-mail: Natalie.Guerrero@bcm.edu

Hometown: Chicago, IL

Fellowship Program: Indiana University, Adolescent Medicine





YIKE JIANG, MD, PHD

Research Interests: I'm interested in the interaction of pathogen and host, especially how it changes immunological factors that contribute to inflammatory diseases.

How does the PSP support your career development?

The Pediatrician-Scientist Program provides a unique opportunity to continue in-depth post-doctoral level research during residency. It provides protected blocks dedicated to writing case reports and grants and performing basic lab research. It also affords financial support and proactive mentorship, promoting experiential training in navigating the competitive landscape of starting a research career as a pediatrician-scientist.

Undergraduate Institution: University of Maryland, College Park

Graduate Institution: Geisel School of Medicine at Dartmouth

Medical School Institution: Geisel School of Medicine at Dartmouth

E-mail: Yikej@bcm.edu

Hometown: Beijing, China; Nepean, Ontario, Canada; Acton, MA

Fellowship Program: Dartmouth, Rheumatology



PRASANNA RAMACHANDRAN, MD, PHD

Research Interest: The recent explosion of genomic information has uncovered a vast world of previously unknown genetic mutations in patients with complex, undiagnosed diseases. The Model Organisms Screening Center (MOSC) of The Undiagnosed Diseases Network, headquartered at Baylor College of Medicine, marries the clinical genetic expertise of Texas Children's Hospital with outstanding basic research at BCM. Tapping into my prior research experience using *Drosophila* and *C. elegans*, I seek to work with the MOSC to investigate whether rare variants identified in the genomes of UDN participants may contribute to disease pathogenesis. This bench-to-bedside enterprise ideally complements my dual training and aspirations in clinical medicine and basic research.

Undergraduate Institution: Fairleigh Dickinson University

Graduate Institution: Washington University in St. Louis, Baylor College of Medicine

Medical School Institution: Baylor College of Medicine

E-mail: pvrach@bcm.edu

Hometown: Chennai, India

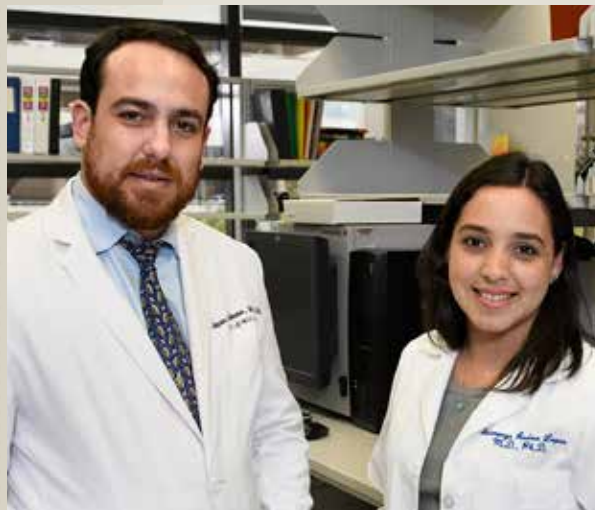
Fellowship Program: Boston Children's Hospital, Gastroenterology-Nutrition

“The PSP has been a great community of support and inspiration. Not only do we have the opportunity to meet and interact with other resident physician scientists in our program, but they also promote interactions with senior pediatrician scientists among Baylor College of Medicine, Texas Children’s Hospital and the Texas Medical Center.”

– Arianexys Aquino López, MD, PhD

Program ALUMNI

• CLASS OF 2021



Arianexys Aquino López, MD, PHD

Javier Cabrera-Perez, MD, PHD



ARIANEXYS AQUINO LÓPEZ, MD, PHD

Research Interests: Aligned with my fellowship interest, I would like to continue my research in the field of solid tumor immunotherapy. Interests include investigating approaches to potentiate anti-tumor effects of immune therapies, including cell therapies and antibody therapies, against oncologic malignancies. I am also interested in studying the impact of tumor microenvironment in immune suppression in order to develop approaches to overcome cancer immune evasion.

How does the PSP support your career development?

The PSP has been a great community of support and inspiration for me. Not only we get to meet and interact with other resident physician scientists in our program, but they also promote interactions with senior pediatrician scientists among Baylor College of Medicine, Texas Children's Hospital and the Texas Medical Center. This serves as a wonderful platform for us to network with other professionals that have chosen a similar career path.

Undergraduate Institution: University of Puerto Rico, Río Piedras Campus

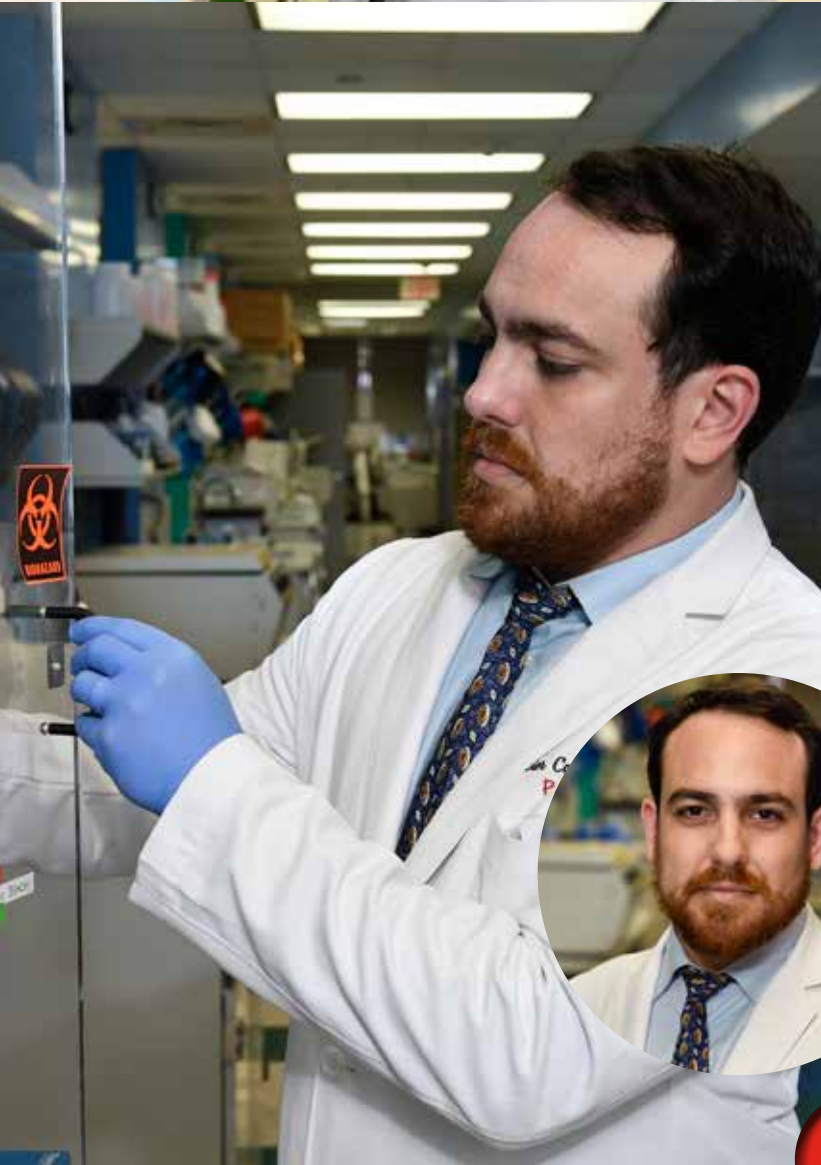
Graduate Institution: The University of Texas MD Anderson Cancer Center UTHHealth Graduate School of Biomedical Sciences

Medical School Institution: MD/PhD - University of Puerto Rico School of Medicine

E-mail: Arianexl@bcm.edu

Hometown: Lares, Puerto Rico

Fellowship Program: Pediatric Hematology/Oncology Fellow, Texas Children's Hospital



JAVIER CABRERA-PEREZ, MD, PHD

Research Interest: Immune Dysregulation syndromes, Sepsis, Monogenic causes of inflammatory diseases in children.

How does the PSP support your career development?

The program provides a two-week block for writing a case report, while simultaneously providing lectures regarding clinical case reporting. In addition, afternoon/evening events provide a great occasion to meet pediatrician-scientists in the community, as well as fellowship directors and attending physicians in subspecialties of interest.

Undergraduate Institution: Columbia University

Graduate Institution: University of Minnesota

Medical School Institution: University of Minnesota

E-mail: cabrerap@bcm.edu

Hometown: Ciego de Ávila, Cuba; Minneapolis, Minnesota

Fellowship Program: Allergy/Immunology Fellow, Brigham and Women's Hospital

Program ALUMNI

CLASS OF 2020



PATRICK CONNELL, MD, PHD

Undergraduate Institution: Johns Hopkins University, Baltimore, MD
Medical School Institution: Baylor College of Medicine, Rice University (combined program) MD, PhD
E-mail: psconnel@bcm.edu
Hometown: Somers, CT
Fellowship Interest: Cardiology
Academic Role: Pediatric Cardiology, Texas Children's Hospital



STELLA HARTONO, MD, PHD

Undergraduate Institution: California State Polytechnic Institute, Pomona, CA
Medical School Institution: Mayo Clinic School of Medicine
E-mail: stella.hartono@bcm.edu
Hometown: Walnut, CA
Fellowship Interest: Allergy and Immunology
Academic Role: Clinical Fellow, National Institute of Allergy and Infectious Diseases



NAOMI TJADEN, MD, PHD

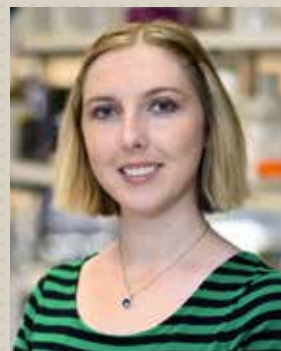
Undergraduate Institution: Boston University, Boston, MA
Medical School Institution: MD/PhD - University of Kansas Medical Center. (PhD- KUMC, Stowers Institute for Medical Research)
E-mail: Tjaden@bcm.edu
Hometown: Mansfield, TX
Fellowship Interest: Gastroenterology
Academic Role: Gastroenterology Fellow, Children's Hospital of Philadelphia

CLASS OF 2019



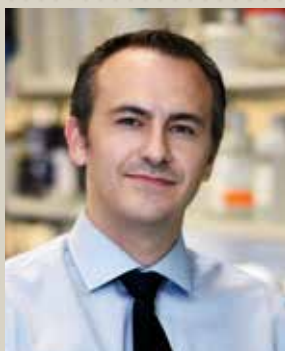
ALONA BIRJINIUK, MD, PHD

Undergraduate Institution: MIT, Cambridge, MA
Medical School Institution: Harvard/MIT MD-PhD program
MD: Harvard Medical School, PhD – MIT
Hometown: Boston, MA
Fellowship Program: Pediatric Cardiology, Lurie Children's Hospital of Chicago



DANIELLE CALLAWAY, MD, PHD

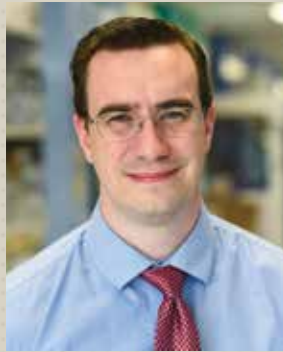
Undergraduate Institution: The University of Texas at Dallas, Richardson, TX
Medical School Institution: MD/PHD: The University of Texas Health Science Center at San Antonio
Hometown: San Antonio, TX
Fellowship Program: Pediatric Neonatology, Children's Hospital of Philadelphia
Academic Role: Research Fellow, Attending Neonatologist



ROMAN DENISKIN, MSc, MSc, MD, PHD

Undergraduate Institution: University of California - Los Angeles (UCLA) Los Angeles, CA; M.S. – University of California - Los Angeles
Medical School Institution: MD/PhD – Albert Einstein College of Medicine
Hometown: Los Angeles, CA
Fellowship Program: Pediatric Allergy & Immunology, Texas Children's Hospital
Academic Role: Assistant Professor of Pediatrics, Kentucky Children's Hospital

CLASS OF 2018



JOSEPH ALGE, MD, MS, PHD

Undergraduate Institution: Wofford College
Graduate Institution: Medical University of South Carolina

Medical School Institution: Medical University of South Carolina

Hometown: Charleston, SC

Fellowship Program: Pediatric Nephrology, Texas Children's Hospital

Academic Role: Assistant Professor, Nephrology Division, Baylor College of Medicine



EMILY HEIKAMP, MD, MSC, PHD

Undergraduate Institution: Duke University, Durham NC

Graduate Institutions: MSc - University of Oxford, Oxford, United Kingdom
PHD - Johns Hopkins University School of Medicine

Medical School Institution: Johns Hopkins University School of Medicine, Baltimore MD

Hometown: New Orleans, LA

Fellowship Program: Pediatric Hematology/Oncology, Boston Children's Hospital

Academic Role: Instructor, Hematology-Oncology and Stem Cell Transplantation, Dana-Farber Cancer Institute



NICOLE RAMSEY, MD, PHD

Undergraduate Institution: Howard University
Graduate Institution: Weill Cornell Graduate School of Medical Sciences

Medical School Institution: Weill Cornell Medical College

Hometown: Brooklyn, NY

Fellowship Program: Pediatric Allergy/Immunology, The Mount Sinai Hospital

Academic Role: Instructor, Allergy & Immunology Division, Ichan School of Medicine at Mount Sinai



XAVIER VILLANUEVA RIOS, MD, PHD

Undergraduate Institution: University of Puerto Rico at Mayaguez

Medical School Institution: Harvard University

Graduate Institution: Harvard Medical School

Hometown: San Sebastian, Puerto Rico

Fellowship Program: Pediatric Hematology/Oncology, Texas Children's Hospital

Academic Role: Instructor, Hematology-Oncology Division, Baylor College of Medicine

"The leadership believes in the potential of each one of us and will do everything they can to support our careers."

– Nicole Ramsey, MD, PHD

What Can the PSP OFFER YOU?

Tailored IRP

Institutional Commitment

Protected Research Time

Unprecedented Opportunity



STRUCTURED Integrated Research Pathway

Layered mentorship
Extensive professional development



UNPARALLELED

Institutional Commitment

We want you to join
THE RICH LEGACY OF PEDIATRICIAN-SCIENTISTS
at Baylor College of Medicine



PROTECTED Research Time

Guaranteed for ALL PSP residents
Flexible call schedule during research months
Supplemental research stipend



UNPRECEDENTED Clinical Training

Texas Children's Hospital
Largest department of pediatrics in the world

STEERING COMMITTEE

Support of research and career development
from Mentorship in all areas of Pediatrics

**ACADEMIC GENERAL
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POLICY & ADVOCACY**



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Director, Medical Students Research Track
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Member, Institute of Medicine and National Academy of Sciences

Professor

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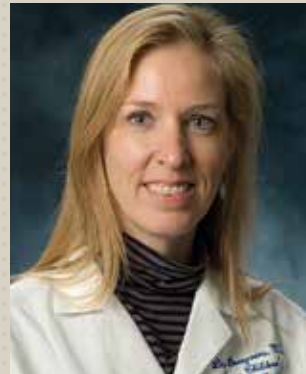
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McNair Medical Institute at The Robert and Janice McNair
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Health Policy Scholar
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Co-Director, Texas Children's Hospital Center for Vaccine Development
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Faculty Fellow, Hagler Institute for Advanced Study
Senior Fellow, Scowcroft Institute of International Affairs
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LEADER



Pediatrician-Scientist Program

Donald Williams Parsons, MD, PHD

Audrea Burns, PHD



DONALD WILLIAM PARSONS, MD, PHD

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AUDREA BURNS, PHD

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Co-Director, Faculty College Health Professions Education Certificate Program
Scholar, Center for Research, Innovation, and Scholarship in Medical Education
Texas Children's Hospital

Associate Professor of Pediatrics
Ambassador, Diversity, Equity, and Inclusion
Inaugural Faculty, Department of Education, Innovation, and Technology
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“The PSP provides specific objectives for trainees to accomplish during each year of the program, which serves as a blueprint for progression through the critical stages of development from resident, to fellow, to K-awardee.”

– Joseph Alge, MD, MS, PHD

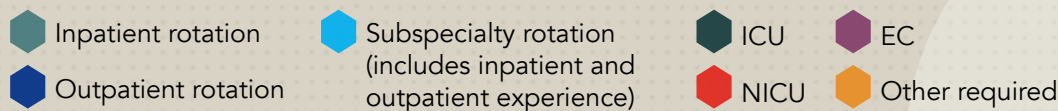
Our IRP: THE EXPERIENCE

• CLINICAL SCHEDULES

PL-1 rotations can occur in any order during the PL-1 year, with the exception of the PSTPD/Harris Health outpt block, which is in block 5 for all PSP residents.

In the second year, the PL-2 research block will always be in block 6. All clinical rotations can occur in any order within the PL-2 year.

In the third year, research will occur in ten continuous blocks. Residents will be paired to experience pediatric hospital medicine which will occur in block 1 or block 12 and the capstone rotation will always occur in block 13.



	PL-1	PL-2	PL-3
1	*PHM - i	*PICU	^{S*} PHM - u
2	*PHM - i	*TCH PFW	Research
3	*PHM - i	^{S*} Subspecialty - u	Research
4	*Hematology/Oncology - i	*Liver/GI or Core	Research
5	#PSP/HH outpt or TCH EC	Cardiology	Research
6	##TCH EC +/- HH Outpt	Research	Research
7	*BT NICU/ICN - i	Adolescent	Research
8	Newborn	Development ^V	Research
9	Elective ^V	^S Harris Health Outpt - u* ^V	Research
10	PCU	Community Pediatrics ^V	Research
11	Harris Health Outpt - i ^V	BT EC	Research
12	Subspecialty - i	TCH EC	Research
13	Pedi Skills ^{V (x2)}	Elective ^V	Capstone Rotation

LEGEND

- * = Call or night shift rotation
- i = Designates an intern rotation
- S = Supervisory rotation
- u = Upper level rotations
- V = Rotation in which vacation is given
- # = Some residents will pair PSP with Harris Health outpt and some will pair with TCH EC
- ## = those pairing PSP and TCH EC in block 5 will split the TCH EC block with HH outpt; the others will have a full block of TCH EC

BBT ICN/NICU = Ben Taub neo ICU and intermediate care nursery (Level 2 nursery)

Community Pediatrics = mixed experience, including school health, ride with EMS system, mobile clinic

Core Subspecialty = rotation in which team covers multiple services (renal, rheumatology, genetics, and allergy-immunology)

EC = Emergency Center (TCH – Texas Children’s Hospital; BT – Ben Taub)

Harris Health Outpt (HH outpt) = County pediatric clinic (general peds and some subspecialty care); located in Pasadena

PSP = 2 weeks dedicated to PSP training

Pedi Skills = rotation in which basic pediatric procedures (e.g., venipuncture, lumbar puncture, bladder catheterization) are taught

PHM = Pediatric Hospital Medicine (general pediatric service)
 Subspecialty = neurology, endocrinology, pulmonary, or infectious diseases (Inpt and Outpt)

• PRE-PL-1 GOALS

Categorical		PSP			
Block #					
Month	Block #	Categorical	Residency Education Mentor (REM) Pairing	Clinical Case Mentor Identification	Annual Orientation Retreat Attendance
May					
Jun					
Jul	1	*PHM - i			
Aug	2	*PHM - i			
Sep	3	*PHM - i			
	4	*Hematology/Oncology - i			
Oct	5	#PSP/HH Outpt or TCH EC			
Nov	6	##TCH EC +/- HH Outpt			
Dec	7	*BT NICU/ICN - i			
Jan	8	Newborn			
Feb	9	Elective ^v			
Mar	10	PCU			
Apr	11	Harris Health Outpt I ^v			
May	12	Subspecialty - i			
Jun	13	Pedi Skills ^{v (x2)}			

• PL-1 GOALS

Categorical		PSP				
Block #						
Jul	1	*PHM - i	Residency Education Mentor (REM) Monthly Meetings Didactic Noon Conference (DNC) Monthly Seminar Pediatrician-Scientist Forum Monthly Seminar Medical Student Thoughtful Pairings			
Aug	2	*PHM - i				
Sep	3	*PHM - i				
	4	*Hematology/Oncology - i				
Oct	5	#PSP/HH Outpt or TCH EC				
Nov	6	##TCH EC +/- HH Outpt				
Dec	7	*BT NICU/ICN - i				
Jan	8	Newborn				
Feb	9	Elective ^v				
Mar	10	PCU			1st Resident Individualized Advisory Committee Progress Meeting (RIAC)	
Apr	11	Harris Health Outpt I ^v				
May	12	*Subspecialty - i			2nd Resident Individualized Advisory Committee Progress Meeting (RIAC)	Case Report
Jun	13	Pedi Skills ^{v(x2)}				

• PL-2 GOALS

Categorical PSP

Block #									
Jul	1	*PICU	Residency Education Mentor (REM) Monthly Meetings	Primary Research Mentor (PRM) Selection				National Meeting Identification	
Aug	2	*TCH PFW							
Sep	3	⁵ *Subspecialty - u							
	4	*Liver/GI or Core							
Oct	5	Cardiology							
Nov	6	Research	Didactic Noon Conference (DNC) Monthly Seminar		Investigative Research				
Dec	7	Adolescent	Pediatrician-Scientist Forum Monthly Seminar			3rd RIAC Meeting	Internal Grant Pilot Grant Program		
Jan	8	Development	Medical Student Thoughtful Pairings				Program Decision Announcement & Peer Study Section		
Feb	9	⁵ Harris Health Outpt - u ^v							
Mar	10	Community Pediatrics ^v							
Apr	11	BT EC							
May	12	TCH EC						Scholarly Review Article	
Jun	13	Elective ^v				4th RIAC Meeting		Orientation Retreat	

• PL-3 GOALS

Categorical

PSP

Block #

Categorical			PSP					
Jul	1	Research	Residency Education Mentor (REM) Monthly Meetings Didactic Noon Conference (DNC) Monthly Seminar Pediatrician-Scientist Forum Monthly Seminar Medical Student Thoughtful Pairings	Investigative Research				
Aug	2	Research						
Sep	3	Research						
	4	Research						
Oct	5	^s *PHM - u						
Nov	6	Research		Investigative Research				
Dec	7	Research			5th RIAC Meeting	Internal Grant Pilot Grant Program		
Jan	8	Research						
Feb	9	Research						
Mar	10	Research						
Apr	11	Research						
May	12	Research					Primary Research Publication	
Jun	13	Research			6th RIAC Meeting	National Meeting Attendance		Submission and Feedback of Candidate Section of NIH K08 Award to Mock Study Section

• SUBSPECIALTY GOALS

		PSP			
Block #		Year 1	Year 2	Year 3	
Jul	1				
Aug	2				
	3				
Sep	4	Residency Education Mentor Meeting (Bi-annual)	Residency Education Mentor Meeting (Bi-annual)	Residency Education Mentor Meeting (Bi-annual)	
Oct	5				
Nov	6				
Dec	7				
Jan	8				
Feb	9		K Award: NIH K-Award Submission		
Mar	10	Residency Education Mentor Meeting (Bi-annual)	Residency Education Mentor Meeting (Bi-annual)	Residency Education Mentor Meeting (Bi-annual)	
Apr	11				
May	12				
Jun	13				



BAYLOR COLLEGE OF MEDICINE

Come join an established legacy of training pediatrician-scientists at Baylor College of Medicine

Highest ranked medical school in Texas by **1st** U.S. News & World Report

1st In Texas since 2006 for funding from the National Institutes of Health

7th Nationally in Pediatrics from U.S. News & World Report

Highest ranked medical school for research in the nation by **22nd** U.S. News & World Report.

Texas Children's Hospital is the primary pediatric training site for Baylor's students. The **largest** pediatric hospital in the nation, Texas Children's is **ranked in all 10 subspecialties** in *U.S. News & World Report's* list of America's Best Children's Hospitals. Overall, Texas Children's Hospital tied for third in the country, and is one of only 10 children's hospitals to achieve Honor Roll designation. Texas Children's Hospital provides care in more than 40 pediatric specialties and has multiple locations across Houston. Additionally, the Texas Children's Women's Pavilion is a state-of-the-art center for obstetrics and gynecology.

Harris Health System (HHS) is a fully integrated healthcare system that cares for all residents of Harris County, Texas. HHS was the first accredited healthcare institution in Harris County to be designated as a Medical Home and is one of the largest in the country. **Ben Taub Hospital**, the central clinical care facility of HHS, is contiguous with the Baylor campus and serves as a teaching hospital for Baylor students for all specialties and their subspecialties.

OPPORTUNITIES ABOUND



U.S. News & World Report ranks Texas Children's Hospital #2 among 200 pediatric hospitals in the nation. The institution has been recognized on the U.S. News and World Report Honor Roll for 14 consecutive years.



Source: infinitepassion.org

TEXAS CHILDREN'S HOSPITAL



THE TEXAS MEDICAL CENTER

The world's largest medical complex

Patient Visits Per Year **10 Million**

More than the populations of Los Angeles, Houston, and San Francisco—combined.

Number of Employees **106,000+**

More people than Exxon, Apple, or Google.

Number of Patient Beds **9,200**

If they were all stacked, they would measure approximately 1.65 miles—the equivalent of 7 Empire State Buildings.



The largest medical

Source: texasmedicalcenter.org

21 Hospitals	160,000 Visitors Daily	17,500 Faculty
61 Institutions	7.2 Million Visitors Annually	15,000 Nurses
8 Academic & Research Institutions	18,000+ International Patients Annually	10,000 Volunteers
4 Medical Schools	10 Million Patient Encounters Annually	5,700 Researchers
8 Nursing Schools	180,000 Surgeries	50,000 Students
2 Universities	13,600 Heart Surgeries	5,000 Physicians
2 Pharmacy Schools	50 Million Developed Sq. Ft.	
1 Community College	\$3 Billion New Construction	
1 High School focused on life sciences		

Number of Babies Delivered **26,280**

TMC delivers about 1 baby every 20 minutes.

Number of people in the health science field **1 in 5**

Living in the 77030 zip code makes TMC the highest concentration of life science professionals in the country.

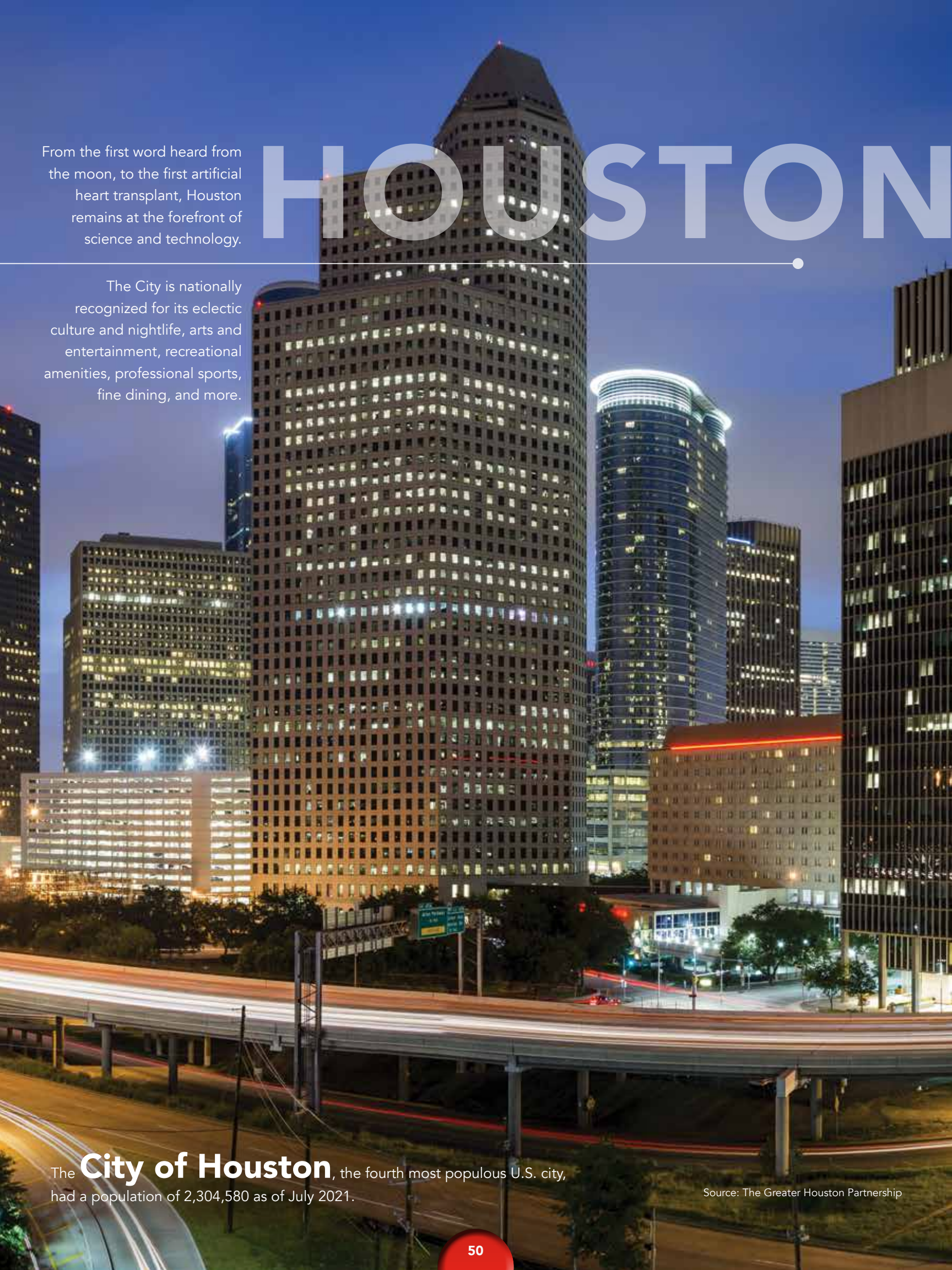
Size of the medical center **1,345 Acres**

TMC is the eighth-largest business district in the country—right after Philadelphia and Seattle.



center in the world

Where possibilities are endless.



From the first word heard from the moon, to the first artificial heart transplant, Houston remains at the forefront of science and technology.

HOUSTON

The City is nationally recognized for its eclectic culture and nightlife, arts and entertainment, recreational amenities, professional sports, fine dining, and more.

The **City of Houston**, the fourth most populous U.S. city, had a population of 2,304,580 as of July 2021.

Source: The Greater Houston Partnership





George R. Brown Convention Center



Hermann Park Conservancy



Downtown Houston



Houston City Hall



Life on the Bayou



Wortham Theater Center





Source: The Greater Houston Partnership

WHY HOUSTON?



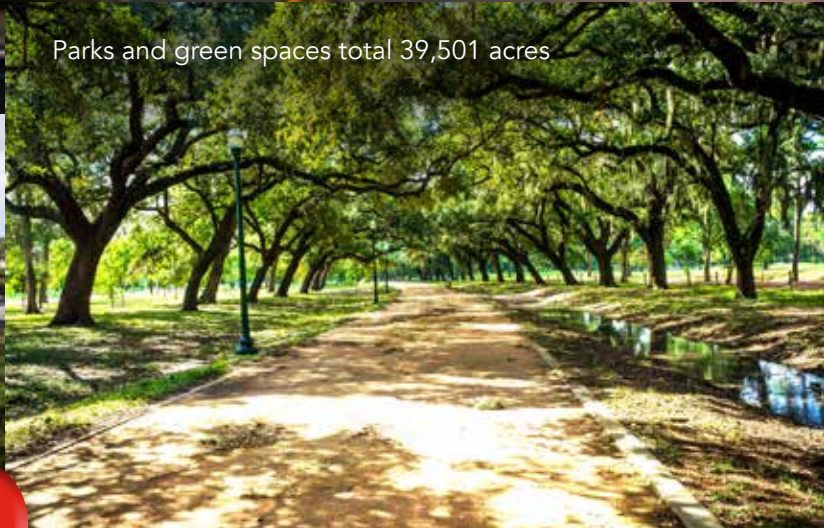
Affordable housing



McGovern Centennial Gardens



Parks and green spaces total 39,501 acres



HOUSTON

By the numbers...

Houston Parks and Recreation Department oversees **380 developed municipal parks** and more than **167 green spaces**, which together encompass approximately **39,501 acres**. The department owns and operates **60 community centers** across the city along with the Metropolitan Multi-Service Center. Amenities include:

- 235 playgrounds
- 201 tennis courts
- 173 basketball courts
- 165.3 miles of trails
- 161 baseball and softball fields
- 87 soccer fields
- 30 pools
- 29 water spray grounds
- 20 volleyball courts
- 16 football/rugby/cricket/lacrosse Fields
- 11 community garden sites
- 9 dog parks
- 8 golf courses
- 7 skate parks
- 5 fitness centers
- 4 nature centers

Greater Houston has **4.4 million sq. ft. of convention space** and regularly hosts worldwide events. In 2018, Houston **hosted 415 conventions and meetings** that drew **737,335 attendees** translating into an estimated economic impact of \$591.7 million.

The **Houston Museum District** is one of the country's most visited and diverse cultural centers with **19 museums**. These museums provide rich experiences in art, history, culture, nature and science. The district is divided in four walkable zones, each of which includes a group of museums.

Resident companies in **drama, ballet, opera** and **orchestra** perform year-round in Houston. More than **500 institutions** are devoted to the performing and visual arts, science and history in the Houston area.

Houston restaurants feature outstanding regional dishes as well as diverse international cuisine. In 2018, Houston was home to **11,292 food service and drinking establishments** that employed more than 258,700.

Housing costs in Houston are 46.2 percent below the average for the nation's 20 most populous metro areas and 3.1 percent below the average for all U.S. metros. Excluding the two most expensive housing markets, New York and San Francisco, which tend to skew the average, Houston's housing costs are 35.3 percent below the major metro average.

The Houston Metropolitan Area covers **9,444 square miles**, an area larger than five states: New Hampshire, New Jersey, Connecticut, Delaware and Rhode Island

Average travel time to work: 29.9 minutes

Demographics (2020)

Populations: City of Houston - 2,304,580

Harris County - 4,731,145

Houston Metropolitan Area - 7,122,240

Ethnic diversity:

37.3% White; 36.5% Hispanic/Latino; 16.9% Black/African American; 7.5% Asian; 1.8% Other

Normal daily **maximum temperatures** in Houston: January 62.9°F; April 79.6°F; July 93.7°F; October 82°F. Houston had 56 inches of rain in 2018.

Source: The Greater Houston Partnership

1. How will I balance the PSP program goals along with the categorical clinical requirements?

We have carefully created a customized clinical and block schedule that will allow for protected periods of time each year to work towards program goals. This schedule is unique to PSP residents, as we understand the demands specific to each rotation and the overall clinic load experienced within each year.

2. Will I receive a salary during the research blocks during the PL-2 and PL-3 year?

Yes salary will be provided throughout the entire program and will be the same as for residents in the categorical program.

3. Is there a special application process for the program?

Please apply to the Pediatrician-Scientist Program track in ERAS. Select applicants will be notified to provide additional information.

Frequently Asked **QUESTIONS**

4. Are the tracks ranked separately for the match?

Yes, the PSP program will accept three candidates, separately from those accepted for the categorical program. There will be a separate ranking process for both programs. You will have the opportunity to rank each track that you have applied to and interviewed for. For example, depending on your personal interests and experience after attending the various track interviews, you can rank the PSP first and the Categorical program second. There is a possibility that you can match for the Categorical program and not match for the PSP program since the PSP track has only three spots.

5. Why should I consider the PSP instead of a short track residency?

The PSP is a pathway to independence program and unlike "short-tracking" there are no additional general pediatric clinical requirements to fulfill during fellowship.

6. Houston, Texas?

The Texas Medical Center is the World's Largest medical center and Houston is the fourth largest city in America. Houston just bypassed New York City as the most diverse city in the U.S. and it is the fastest growing major city.

7. What is so unique about the PSP?

The PSP has a protected residency pathway to reconnect you to research, establish your investigative network while focusing intensely on developing your scholarly and investigator skills. The entirety of the 1000+ faculty in the Department of Pediatrics is aligned behind the PSP and your success.



COMMUNITY

