Ehssan Faraji, MD
Curriculum Vitae

The Children's Hospital of Philadelphia
Division of Cardiology

EDUCATION & POSTGRADUATE TRAINING

07/2025 – Present **Interventional Cardiology Fellow**
Children's Hospital of Philadelphia

07/2022 – 06/2025 **Pediatric Cardiology Fellow**
Children's Hospital of Philadelphia

07/2021 – 06/2022 **Pediatric Chief Resident**
Arkansas Children's Hospital

08/2018 – 06/2021 **Pediatric Resident**
Arkansas Children's Hospital

07/2013 – 05/2018 **Medical Doctorate**
University of Texas Southwestern Medical School

08/2009 – 05/2013 **B.S in Biomedical Engineering**
Cockrell School of Engineering, University of Texas at Austin

HONORS & AWARDS

2020 **Hospitalist Medicine Outstanding Resident Award**
Department of Pediatrics, University of Arkansas for Medical Sciences, Arkansas Children's Hospital

2019 **Intern of the Year Award**

Department of Pediatrics, University of Arkansas for Medical Sciences, Arkansas Children's Hospital

2013 **UTSW Alumni Scholarship**
University of Texas Southwestern Medical School
Merit-based, full-tuition academic scholarship

RESEARCH EXPERIENCE

06/2023 – Present **Associations Between Social Determinants of Health and Likelihood of Specialist Follow-up after Device Closure of the Ductus Arteriosus in Premature Infants**
University of Pennsylvania, Division of Cardiology
Children's Hospital of Philadelphia
Principle Investigator: Michael L. O'Byrne, MD, MSCE., *Associate Professor of Pediatrics*

07/2018 – 01/2024 **Left Ventricular Systolic Dysfunction Following VSD Repair**
University of Arkansas for Medical Sciences, Division of Cardiology
Arkansas Children's Hospital
Principle Investigator: Joshua Daily, M.D., *Associate Professor of Pediatrics*

05/2014 – 08/2016 **Models for Laser Doppler Blood Flowmetry**
University of Texas Biomedical Engineering
Cockrell School of Engineering
Principle Investigator: Andrew Dunn, Ph.D., *Professor and Chair of Biomedical Engineering*

01/2012 – 05/2014 **Microfluidic Evaluation of Optical Blood Flow Imaging**
University of Texas Biomedical Engineering
Cockrell School of Engineering
Principle Investigator: Andrew Dunn, Ph.D., *Professor and Chair of Biomedical Engineering*

01/2009 – 12/2011 **Contrast Agent Development for Photoacoustic Cancer Imaging**
University of Texas Biomedical Engineering
Cockrell School of Engineering
Principle Investigator: Konstantin Sokolov, Ph.D., *Associate Professor of Biomedical Engineering*

PEER-REVIEWED PUBLICATIONS

1. **Faraji E,** Faerber J, Tam V, Corder W, Gupta M, Tang J, Smith C, Callahan R, Dori Y, Rome J, Gillespie M, O'Byrne M. Associations Between Social Determinants of Health and Likelihood of Specialist Follow-up After Device Closure of the Ductus Arteriosus in Premature Infants. *In preparation*.
2. **Faraji E**, Bolin EH, Collins RT, Greiten L, Daily JA. Author Response to Letter to the Editor Re: "Left Ventricular Dysfunction Following Repair of Ventricular Septal Defects in Infants". *Pediatric Cardiology*. March 2024.
3. **Faraji E**, Bolin EH, Bond EG, Collins RT, Greiten L, Daily JA. Left Ventricular Dysfunction Following Repair of Ventricular Septal Defects in Infants. *Pediatric Cardiology*. January 2024.
4. **Faraji E**, Sukumaran S, Vijayan V. A 3-Year-Old with Fever and Rash: An Atypical Cause of Shock. *Clinical Pediatrics*. June 2020.
5. Kazmi SM, **Faraji E,** Davis MA, Huang YY, Zhang XJ, Dunn AK. Flux or Speed? Examining speckle contrast imaging of vascular flows. *Biomedical Optics Express*. June 2015.

PUBLISHED ABSTRACTS

1. **Faraji E**, Gupta M, Tang J, O'Byrne M, Callahan R. A Low-Profile Technique for Transseptal Puncture in Neonates and Small Infants. *Pediatric Cardiology*. August 2025.
2. **Faraji E**, Faerber J, Tam V, Corder W, Gupta M, Tang J, Smith C, Callahan R, Dori Y, Rome J, Gillespie M, O'Byrne M. Patient Factors Impacting Clinician Follow-up After PDA Device Closure in Infants. *JSCAI*. May 2025.
3. **Faraji E**, Bolin EH, Collins II RT, Greiten L, Daily JA. Author Response to Letter to the Editor Re: "Left Ventricular Dysfunction Following Repair of Ventricular Septal Defects in Infants". *Pediatric Cardiology*. March 2024.
4. **Faraji E**, Bolin EH, Bond EG, Thomas Collins R 2nd, Greiten L, Daily JA. Left Ventricular Dysfunction Following Repair of Ventricular Septal Defects in Infants. *Pediatric Cardiology*. January 2024.
5. **Faraji E**, Sukumaran S, Vijayan V. A 3-Year-Old with Fever and Rash: An Atypical Cause of Shock. *Clinical Pediatrics*. June 2020.
6. Kazmi SM, **Faraji E,** Davis MA, Huang YY, Zhang XJ, Dunn AK. Flux or Speed? Examining speckle contrast imaging of vascular flows. *Biomedical Optics Express*. June 2015.

INVITED LECTURES & PRESENTATIONS

October 2025 "Hemodynamic Assessment and Transcatheter Therapy for Congenital Heart Disease". CHOP Cardiac Surgery Fellows Conference. Philadelphia, PA.

February 2025 "Diagnosis and Management of Pulmonary Vein Stenosis". CHOP Cardiology Conference Plenary Session. Orlando, FL.

February 2025 "Intensive Care Unit Management of Post-Operative Tetralogy of Fallot". Tahir Heart Institute Grand Rounds. Tahir Heart Institute, Chenab Negar, Pakistan.

October 2021 "Left Ventricular Dysfunction Following Repair of Ventricular Septal Defects in Infants*". Oral Presentation in the Young Investigator Award Competition*. AAP Section on Cardiology and Cardiac Surgery.

ORAL PRESENTATIONS & POSTER SESSIONS

1. "A Low-Profile Technique for Transseptal Puncture in Neonates and Small Infants" *Moderated Poster Presentation*. PICS Conference, August 2025. Chicago, IL.
2. "Associations Between Patient Characteristics and Specialist Follow-up after Device Closure of the Ductus Arteriosus in Premature Infants". *Poster Presentation*. SCAI Conference, May 2025. Washington, DC.
3. "Hypoxemia Secondary to Plastic Bronchitis from Hepatopulmonary Lymphatic Connections and Vertical Vein in a Fontan Patient". *Poster Presentation*. CHOP Cardiology Conference, February 2025. Orlando, FL.
4. "Left Ventricular Dysfunction Following Repair of Ventricular Septal Defects in Infants*". Oral Presentation in the Young Investigator Award Competition*. AAP Section on Cardiology and Cardiac Surgery, October 2021.
5. "Mitral Valve Disease as a Sequelae of Rheumatic Fever". *Oral Case Report*. Department of Pediatrics, Arkansas Children's Hospital, December 2019. Little Rock, AR.
6. "An Atypical Cause of Shock". *Poster Presentation*. Pediatric Hospital Medicine Conference, July 2019. Little Rock, AR.
7. "Optimization & Evaluation of Exposure Durations for Multi-Exposure Speckle Contrast Imaging". *Poster Presentation*. 6th Annual UT Biomedical Engineering Research Symposium, University of Texas Austin, May 2012. Austin, TX.

8. "Biodegradable Nanoclusters for Cancer Imaging: Animal Study*". Poster Presentation*. 5th Annual UT Biomedical Engineering Research Symposium, University of Texas Austin, May 2011. Austin, TX.
9. "Near-Infrared Plasmonic Nanoclusters for Biomedical Applications". *Poster Presentation*. 4th Annual UT Biomedical Engineering Research Symposium, University of Texas Austin, May 2010. Austin, TX.

PROFESSIONAL TRAINING & SCHOLARLY ACTIVITIES

August 2025	PICS Fellows Course. Chicago, IL.
May 2025	National Fellow Career Development Conference. University of Utah Primary Children's Hospital. Salt Lake City, UT.
February 2025	Tahir Heart Institute Invited International Rotation. Chenab Negar, Pakistan.
December 2024	SCAI Fellows Course. Miami, FL.

PROFESSIONAL & SCIENTIFIC SOCIETY MEMBERSHIPS

2025 - Present	Pediatric and Congenital Interventional Cardiovascular Society
2024 - Present	Society for Cardiovascular Angiography and Interventions
2021 - Present	American Academy of Pediatrics

CERTIFICATION

2022 - Present	General Pediatrics Board Certification
2018 - Present	Basic Life Support (BLS)
2018 - Present	Pediatric Advanced Life Support (PALS)
2018 - Present	Advanced Cardiovascular Life Support (ACLS)

LICENSURE

2025 - Present	Pennsylvania Medical License

2022 - 2025	Pennsylvania Medical Training License
2018 - 2022	Arkansas Medical License

LANGUAGES

English	Native
Farsi	Native