

Anish Sanjay Shah

Cardiology Fellow

Curriculum Vitae

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Cardiology fellow with a clinical interest in neural regulation of cardiac physiology and cardiac electrophysiology, and a research interest in epidemiology/causality, harmonic regressions, recurrent event analysis, and digital signal processing.

Academic Qualifications and Positions

Education

2007–2011	Bachelor of Science <ul style="list-style-type: none">➤ Linguistics➤ Neuroscience & Behavioral Biology	Emory University College of Arts and Sciences
2012–2016	Doctor of Medicine	Texas A&M University College of Medicine
2019–2021	Master of Science	Emory University Laney Graduate School

Clinical Training

2016–2019	J. Willis Hurst Internal Medicine Residency <ul style="list-style-type: none">➤ Distinction in Teaching and Leadership	Emory University School of Medicine
2020–2024	Cardiology Fellowship <ul style="list-style-type: none">➤ T32 Physician-Scientist Track	University of Illinois Chicago School of Medicine

Academic Appointments

2022–2024	NIH-T32 Cardiology Research Fellow <ul style="list-style-type: none">➤ Research fellow in cardiac arrhythmias and genetics	University of Illinois Chicago School of Medicine
2020–2024	Clinical Cardiology Fellowship <ul style="list-style-type: none">➤ Research-track, clinical fellow at University of Illinois Hospital and Jesse Brown VA Medical Center	University of Illinois Chicago School of Medicine
2019–2020	Postdoctoral Fellow <ul style="list-style-type: none">➤ Epidemiology/biostatistical research in autonomic dysfunction	Department of Epidemiology, Rollins School of Public Health
2019–2020	Assistant Professor of Medicine <ul style="list-style-type: none">➤ Hospital medicine attending	Division of Hospital Medicine, Emory University School of Medicine
2019–2020	NIH-TL1 Postdoctoral Scholar <ul style="list-style-type: none">➤ Research fellow in autonomic dysfunction	Georgia Clinical and Translational Science Alliance
2016–2017	Internship <ul style="list-style-type: none">➤ Internal medicine intern at Grady Memorial Hospital, Emory University Hospital, and Atlanta VA Medical Center	Emory University School of Medicine
2016–2020	Internal Medicine Residency <ul style="list-style-type: none">➤ Internal medicine junior and senior resident at Grady Memorial Hospital, Emory University Hospital, and Atlanta VA Medical Center	Emory University School of Medicine

Honors and Awards

2023–2024	Atrial Fibrillation Genetics Fellow <ul style="list-style-type: none">➤ Genetics of atrial fibrillation research award	Atrial Fibrillation Genetics Consortium
2019	TL1 Postdoctoral Scholar <ul style="list-style-type: none">➤ Georgia Translational Science Alliance	Ruth L. Kirschstein National Research Service Award

2018	Top Donors Meeting Presentation ➤ Special invitation to discuss research with AHA leadership and top philanthropists	American Heart Association Scientific Sessions
2017	Emory Resident Team ➤ Doctor's Dilemma	Georgia ACP Conference
2015	Research Symposium ➤ 1st Place Oral Presentation	Texas A&M University College of Medicine
2013	Medical Student Research Program in Diabetes ➤ National Institute of Diabetes and Digestive and Kidney Diseases	Johns Hopkins University School of Medicine
2009	Delores B. Aldridge Excellence in Service to a Diverse Community Award	Emory University College of Arts and Sciences
2009–2011	Nu Rho Psi Honor Society	Emory University College of Arts and Sciences
2009	Speaker to his Holiness the XIV Dalai Lama ➤ Selected to represent Emory students in a meeting with the Dalai Lama in MacLeod Gange, India.	Institute of Buddhist Dialectics
2007	EMT-Basic National Competition ➤ 1st Place	Health Occupation Students of America

Professional Memberships

2020–Present	American College of Cardiology
2018–Present	American Heart Association
2012–2016	Texas Medical Association
2012–Present	American Medical Association
2012–Present	American College of Physicians

Teaching

Teaching Positions

2020–2022	Workshop Leader ➤ Critical Care and Resuscitation Committee	University of Illinois Chicago School of Medicine
2019	Workshop Leader ➤ Physical Exam and Clinical Decision Making Course	Emory University School of Medicine
2019–2020	Teaching Attending ➤ Point-of-Care Ultrasonography Elective	Emory University School of Medicine
2018–2019	Workshop Leader ➤ M3 Ultrasound Curriculum	Emory University School of Medicine
2017–2019	Faculty Preceptor ➤ Physician Assistant Didact Experiential Learning Program	Emory University School of Medicine
2016	Session Leader ➤ Internship Bootcamp	Texas A&M University College of Medicine
2011–2012	Tutor ➤ Biology, Chemistry, and Physics	North Lake College
2010–2011	Teaching Assistant ➤ Cellular Biology	Emory University College of Arts and Sciences

Lectures

2023	Research Seminar ➤ Vagolysis and Arrhythmogenesis	University of Illinois Chicago School of Medicine
2023	Mortality and Morbidity Conference ➤ Left Atrial Appendage Closure	University of Illinois Chicago School of Medicine
2022	Electrophysiology Conference ➤ Introduction to Typical AVNRT	University of Illinois Chicago School of Medicine
2021	Mortality and Morbidity Conference ➤ Mitral Valve Replacement in Rheumatic Heart Disease	University of Illinois Chicago School of Medicine
2021	Journal Club ➤ Cardiac Myosin Activation with Omecamtiv Mecarbil in Systolic Heart Failure (GALACTIC-HF)	University of Illinois Chicago School of Medicine
2020	Journal Club ➤ Early Rhythm-Control Therapy in Patients with Atrial Fibrillation (EAST-AFNET)	University of Illinois Chicago School of Medicine
2020	Clinical Case Conference ➤ Restrictive Cardiomyopathy	University of Illinois Chicago School of Medicine
2019	Senior Grand Rounds ➤ The History of Sudden Cardiac Death: the Role of the Autonomic Nervous System	Emory University School of Medicine
2018	Bite-Sized Teaching Mode Conference ➤ Lotions and Ointments and Creams, Oh My! ➤ Ironing Out Transfusions in Sickle Cell	Emory University School of Medicine
2018	Distinction in Teaching and Leadership Conference ➤ The Problem Learner: A history and physical for learners with difficulties	Emory University School of Medicine
2018	Journal Club ➤ Intervention of Ischemic Stroke: Thrombectomy in 6 to 16 Hours with Selection by Perfusion Imaging	Emory University School of Medicine
2018	Ultrasound Workshop ➤ Cardiac, IVC, Lung, and Abdominal Views	Southern Hospital Medicine Conference
2018	8 Minutes-To-Win-It ➤ Top Inpatient Teaching Sessions by Soon-To-Be-Leaders	Southern Hospital Medicine Conference
2017	Point-of-Care Ultrasound ➤ Parasternal Long Axis	Emory University School of Medicine

Mentorship Students

2016–2019	Emory University School of Medicine ➤ Julie Sommer, PA-S ➤ John Ward, M3 ➤ Deema Elchoufi, M3 ➤ Hugo Cavalia, M4 ➤ Brian Mott, M3 ➤ Anna Coronata, M3 ➤ Eli Mlaver, M3 ➤ Grace Helen Frankel, PA-S
2020–2024	University of Illinois Chicago School of Medicine ➤ Alex Wind, M3 ➤ Esther Kim, M4 ➤ Kevin Kappenman, M4

Residents

2016–2019

Emory University School of Medicine

- Rebecca Engels, MD
- Mangala Patil, MD
- Rebecca Neustein, MD
- Kate Measom, MD
- Kevin Luk, MD
- Eric Yao, MD
- Ross Bittman, MD
- Samuel Huxley, MD
- Arjun Athreya, MD
- Lakshmi Katta, MD
- Ryan Brown, MD

2020–2024

University of Illinois Chicago School of Medicine

- Jeffrey Rehman, MD
- Lena Carleton, MD
- Amir Khan, DO

Research

2019–2020

Department of Epidemiology, Rollins School of Public Health

- Shishir Gupta, M4
- Manasvi Sundar, BS
- Nimrit Kaur

Skills

Point-Of-Care Ultrasonography

- Assessing cardiac structure and function
- Identifying pleural and pulmonary disease
- Volume assessment
- Identifying hydronephrosis and bladder volume
- Skin and soft tissue evaluation
- Liver and gallbladder disease

Procedures

- Arterial line placement (radial, brachial, dorsalis pedis, axillary)
- Arthrocentesis (knee, ankle, shoulder)
- Central line placement (internal jugular, femoral, subclavian)
- Lumbar puncture
- Thoracentesis
- Paracentesis

Languages

- English
- Gujarati
- Spanish

Technical

- R, RStudio - scripting language and environment for statistical computing and graphics
- PERL - high-level programming language for text processing and manipulation
- C++ - low-level programming language for data processing
- Vim - command line editing
- Markdown - syntax for formatting of writing
- Git, Github - version control system
- MATLAB - matrix-oriented mathematical programming language

Certifications**Professional**

2019–Present	American Board of Internal Medicine
2007–2010	Emergency Medical Technician Basic
2012–2016	Advanced Trauma Life Support
2012–Present	Advance Cardiovascular Life Support

Personal

2015–Present	PADI Open Water Diver
2016–Present	Wilderness First Responder
2017–Present	ASA 101 Basic Keelboat

Research**Grant Funding**

2022–2024	NIH-T32 Chicago, IL	University of Illinois Chicago School of Medicine
	➤ Training in Personalized Cardiovascular Medicine [TPIPCVM]	
2020–2023	NIH-F32	National Heart, Lung, Blood Institute
	➤ The Association of Autonomic Dysfunction with the Relationship between Depression and Coronary Disease	
	➤ F32HL154707	
2019–2020	NIH-TL1 Atlanta, GA	Georgia Clinical and Translational Science Alliance
	➤ Disturbances of the Neurocardiac Axis: Using Heart Rate Variability to Measure Disease in the Brain and Heart	
	➤ TL1TR002382	
	➤ UL1TR002378	

Conferences

1. Shah, A. S., & Sanchez, M. (2009). Cortisol Levels in Rhesus Monkeys with Maternal Separation Over Longitudinal Cohorts. *Scholarly Inquiry and Research at Emory Research Partners Symposium*.
2. Shah, A. S., & Li, Y. (2011). Influence of the Acoustic Parameter of Pitch on Emotion and Focus Location in Statements using Ditransitive Verb Manipulations. *Great Lakes Expo for Experimental and Formal Undergraduate Linguistics*.
3. Shah, A. S., & Blackman, S. M. (2013). Genetic Linkage Analysis for Cystic Fibrosis Related Diabetes. *National Institute of Diabetes and Digestive and Kidney Diseases Medical Student Research Symposium*.
4. Shah, A. S., Mrdutt, M., Sanders, E., Mallett, L., Perger, L., Mrdutt, M., Sanders, E., & Perger, L. (2016). Long-Term Outcomes of Newborns with Necrotizing Enterocolitis: A retrospective matched cohort study. *Texas A & M University College of Medicine Research Symposium*.
5. Shah, A. S., Clements, S. D., & Dudgeon, M. (2017). Three's company: Nocardiosis, neuroendocrine hyperplasia, and breast cancer. *Southern Hospital Medicine Conference*.

6. Shah, A. S., & Shah, A. J. (2018). Association of Ischemia with Heart Rate Variability. *2018 Georgia Chapter Scientific Meeting*.
7. Shah, A. S., Alonso, A., & Shah, A. J. (2020). Autonomic Dysfunction as a Marker of Depression and Coronary Artery Disease. *Southeast Regional Clinical & Translational Science Conference*.
8. Hill, M. C., Chalazan, B., Tofovic, D., Chen, Y., Shah, A., Barney, M., Diaz, A., Konda, S., & Darbar, D. (2023, March). Prevalence Of Disease-Associated Cardiomyopathy Gene Variants In Ethnic Minorities With Atrial Fibrillation. *Journal of the American College of Cardiology*.

Software

1. Shah, A. S. (2020). *Card: Cardiovascular and Autonomic Research Design*. R package v0.1.0. <https://cran.r-project.org/package=card>

Publications

1. Shah, A. S. A. A. J., Lampert, R., Goldberg, J., Bremner, J. D., Vaccarino, V., & Shah, A. S. A. A. J. (2018). Abstract 15216: Circadian Autonomic Inflexibility: A Marker of Ischemic Heart Disease. *Circulation*, 138. https://doi.org/10.1161/circ.138.suppl_1.15216
2. Shah, A. S., Alonso, A., Whitsel, E. A., Soliman, E. Z., Vaccarino, V., & Shah, A. J. (2020). Abstract P542: Association of Psychosocial Factors With Heart Rate Variability: The Atherosclerosis Risk in Communities Study. *Circulation*, 141. https://doi.org/10.1161/circ.141.suppl_1.p542
3. Shah, A. S., Shah, A. J., Lampert, R., Goldberg, J., Bremner, J. D., Li, L., Thames, M. D., Vaccarino, V., & Shah, A. S. A. J. (2020). Alterations in heart rate variability are associated with abnormal myocardial perfusion. *International Journal of Cardiology*, 305. <https://doi.org/10.1016/j.ijcard.2020.01.069>
4. Shah, A. S. (2020). 4581 Autonomic Dysfunction as a Marker of Depression and Coronary Artery Disease. *Journal of Clinical and Translational Science*, 4(s1). <https://doi.org/10.1017/cts.2020.291>
5. Shah, A. S., Alonso, A., Whitsel, E. A., Soliman, E. Z., Vaccarino, V., & Shah, A. J. (2021). Association of Psychosocial Factors With Short-Term Resting Heart Rate Variability: The Atherosclerosis Risk in Communities Study. *Journal of the American Heart Association*, 10(5). <https://doi.org/10.1161/JAHA.120.017172>
6. Vaccarino, V., Almuwaqqat, Z., Kim, J. H., Hammadah, M., Shah, A. J. A., Ko, Y. A., Elon, L., Sullivan, S., Shah, A. J. A., Alkhoder, A., Lima, B. B., Pearce, B., Ward, L., Kutner, M., Hu, Y., Lewis, T. T., Garcia, E. V., Nye, J., Sheps, D. S., ... Quyyumi, A. A. (2021). Association of Mental Stress-Induced Myocardial Ischemia with Cardiovascular Events in Patients with Coronary Heart Disease. *JAMA - Journal of the American Medical Association*, 326(18). <https://doi.org/10.1001/jama.2021.17649>
7. Shah, A. S., Vaccarino, V., Ko, Y.-A., Almuwaqqat, Z., Garcia, M., Moazzami, K., Wang, M., Levantsevych, O., young, an, Ward, L., Nye, J., Raggi, P., Sheps, D. S., Lampert, R. J., Bremner, D., Sun, Y., Garcia, E. V., Quyyumi, A. A., & Shah, A. J. (2023). Mental Stress-Induced Autonomic Dysfunction Is Associated With Cardiovascular Mortality. *Journal of the American College of Cardiology*, 81(8). [https://doi.org/10.1016/s0735-1097\(23\)01590-5](https://doi.org/10.1016/s0735-1097(23)01590-5)
8. Wang, M., Liu, C., Shah, A. S., Ko, Y.-A., Sun, Y., Lampert, R. J., Garcia, M., Moazzami, K., Almuwaqqat, Z., Ward, L., Sullivan, S., Raggi, P., Bremner, D., Quyyumi, A. A., Vaccarino, V., Morris, A. A., & Shah, A. J. (2023). Heart Rate Variability During Mental Stress Predicts Heart Failure Outcomes In Patients With Stable Coronary Artery Disease. *Journal of the American College of Cardiology*, 81(8). [https://doi.org/10.1016/s0735-1097\(23\)00913-0](https://doi.org/10.1016/s0735-1097(23)00913-0)