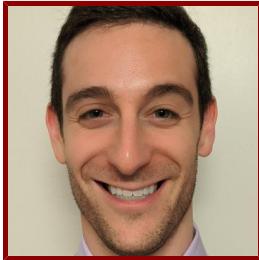


# Stanford

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## Daniel Katz

Instructor, Medicine - Cardiovascular Medicine

Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

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### Bio

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#### BIO

Daniel Katz is an Instructor of Medicine and an Advanced Heart Failure and Transplant Cardiologist. He completed internal medicine residency at Massachusetts General Hospital, general cardiology training at Beth Israel Deaconess Medical Center, and then joined Stanford in 2021 for his advanced heart failure training. Since medical school, his research has focused on identifying the various pathophysiologic patterns and mechanisms that lead to the heterogeneous syndrome of heart failure. His efforts leverage high dimensional data in many forms including clinical phenotypes, plasma proteomics, metabolomics, and genetics. He is presently engaged in analysis of multi-omic data from the Molecular Transducers of Physical Activity Consortium (MoTrPAC) and the NHLBI Trans-Omics for Precision Medicine (TOPMed) Program. His clinical interests include advanced heart failure, transplant cardiology, and mechanical circulatory support.

#### CLINICAL FOCUS

- Cardiac Transplantation
- Heart-Assist Devices
- Heart Failure
- Advanced Heart Failure and Transplant Cardiology

#### ACADEMIC APPOINTMENTS

- Instructor, Medicine - Cardiovascular Medicine
- Member (Postdoc), Cardiovascular Institute

#### PROFESSIONAL EDUCATION

- Board Certification: Advanced Heart Failure and Transplant Cardiology, American Board of Internal Medicine (2022)
- Fellowship: Stanford University Advanced Heart Failure and Transplant Fellowship (2022) CA
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2020)
- Fellowship, Beth Israel Deaconess Medical Center Harvard Medical School , MA (2020)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2017)

- Residency: Massachusetts General Hospital Internal Medicine Residency (2017) MA
- Medical Education: Northwestern University Feinberg School of Medicine (2014) IL

## Research & Scholarship

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### CLINICAL TRIALS

- Identifying Markers of Exercise Training in Heart Failure, Recruiting

### Publications

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#### PUBLICATIONS

- **Plasma proteomic changes in response to exercise training are associated with cardiorespiratory fitness adaptations.** *JCI insight*  
Robbins, J. M., Rao, P., Deng, S., Keyes, M. J., Tahir, U. A., Katz, D. H., Beltran, P. M., Marchildon, F., Barber, J. L., Peterson, B., Gao, Y., Correa, A., Wilson, et al  
2023; 8 (7)
- **Nontargeted and Targeted Metabolomic Profiling Reveals Novel Metabolite Biomarkers of Incident Diabetes in African Americans.** *Diabetes*  
Chen, Z., Pacheco, J. A., Gao, Y., Deng, S., Peterson, B., Shi, X., Zheng, S., Tahir, U. A., Katz, D. H., Cruz, D. E., Ngo, D., Benson, M. D., Robbins, et al  
2022
- **Whole Genome Association Study of the Plasma Metabolome Identifies Metabolites Linked to Cardiometabolic Disease in Black Individuals.** *Nature communications*  
Tahir, U. A., Katz, D. H., Avila-Pachecho, J., Bick, A. G., Pampana, A., Robbins, J. M., Yu, Z., Chen, Z., Benson, M. D., Cruz, D. E., Ngo, D., Deng, S., Shi, et al  
2022; 13 (1): 4923
- **Proteomic profiling platforms head to head: Leveraging genetics and clinical traits to compare aptamer- and antibody-based methods** *SCIENCE ADVANCES*  
Katz, D. H., Robbins, J. M., Deng, S., Tahir, U. A., Bick, A. G., Pampana, A., Yu, Z., Ngo, D., Benson, M. D., Chen, Z., Cruz, D. E., Shen, D., Gao, et al  
2022; 8 (33): eabm5164
- **Proteomics and Population Biology in the Cardiovascular Health Study (CHS): design of a study with mentored access and active data sharing.** *European journal of epidemiology*  
Austin, T. R., McHugh, C. P., Brody, J. A., Bis, J. C., Sitrani, C. M., Bartz, T. M., Biggs, M. L., Bansal, N., Buzkova, P., Carr, S. A., deFilippi, C. R., Elkind, M. S., Fink, et al  
2022
- **Whole Genome Sequence Analysis of the Plasma Proteome in Black Adults Provides Novel Insights Into Cardiovascular Disease.** *Circulation*  
Katz, D. H., Tahir, U. A., Bick, A. G., Pampana, A., Ngo, D., Benson, M. D., Yu, Z., Robbins, J. M., Chen, Z., Cruz, D. E., Deng, S., Farrell, L., Sinha, et al  
2022; 145 (5): 357-370
- **Proteomics in Heart Failure: From Benchtop to Bedside.** *Journal of cardiac failure*  
Katz, D. H., Thompson, A. D.  
1800
- **Human plasma proteomic profiles indicative of cardiorespiratory fitness (vol 3, pg 786, 2021)** *NATURE METABOLISM*  
Robbins, J. M., Peterson, B., Schranner, D., Tahir, U. A., Rienmuller, T., Deng, S., Keyes, M. J., Katz, D. H., Beltran, P., Barber, J. L., Baumgartner, C., Carr, S. A., Ghosh, et al  
2021; 3 (9): 1275
- **Multomic Profiling in Black and White Populations Reveals Novel Candidate Pathways in Left Ventricular Hypertrophy and Incident Heart Failure Specific to Black Adults** *CIRCULATION-GENOMIC AND PRECISION MEDICINE*  
Katz, D. H., Tahir, U. A., Ngo, D., Benson, M. D., Gao, Y., Shi, X., Naylor, M., Keyes, M. J., Larson, M. G., Hall, M. E., Correa, A., Sinha, S., Shen, et al  
2021; 14 (3): 348-358
- **Human plasma proteomic profiles indicative of cardiorespiratory fitness** *NATURE METABOLISM*  
Robbins, J. M., Peterson, B., Schranner, D., Tahir, U. A., Rienmueller, T., Deng, S., Keyes, M. J., Katz, D. H., Beltran, P., Barber, J. L., Baumgartner, C., Carr, S. A., Ghosh, et al  
2021; 3 (6): 786-+

- **Proteomic profiling reveals novel biomarkers and pathways in type 2 diabetes risk.** *JCI insight*  
Ngo, D. n., Benson, M. D., Long, J. Z., Chen, Z. Z., Wang, R. n., Nath, A. K., Keyes, M. J., Shen, D. n., Sinha, S. n., Kuhn, E. n., Morningstar, J. E., Shi, X. n., Peterson, et al  
2021
- **Metabolomic Profiles and Heart Failure Risk in Black Adults: Insights From the Jackson Heart Study** *CIRCULATION-HEART FAILURE*  
Tahir, U. A., Katz, D. H., Zhao, T., Ngo, D., Cruz, D. E., Robbins, J. M., Chen, Z., Peterson, B., Benson, M. D., Shi, X., Dailey, L., Andersson, C., Vasan, et al  
2021; 14 (1): 28-38
- **Circulating testican-2 is a podocyte-derived marker of kidney health** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Ngo, D., Wen, D., Gao, Y., Keyes, M. J., Drury, E. R., Katz, D. H., Benson, M. D., Sinha, S., Shen, D., Farrell, L. A., Peterson, B. D., Friedman, D. J., Elmariyah, et al  
2020; 117 (40): 25026-25035
- **Proteomic Profiling in Biracial Cohorts Implicates DC-SIGN as a Mediator of Genetic Risk in COVID-19.** *medRxiv : the preprint server for health sciences*  
Katz, D. H., Tahir, U. A., Ngo, D., Benson, M. D., Bick, A. G., Pampana, A., Gao, Y., Keyes, M. J., Correa, A., Sinha, S., Shen, D., Yang, Q., Robbins, et al  
2020
- **Mining a GWAS of Severe Covid-19** *New England Journal of Medicine*  
Katz, D. H., Wilson, J. G., Gerszten, R. E.  
2020; 383: 2588-2589
- **In the Clinic Stable Ischemic Heart Disease** *ANNALS OF INTERNAL MEDICINE*  
Katz, D., Gavin, M. C.  
2019; 171 (3): ITC17-U136
- **A Role for Branched-Chain Amino Acids in the Pathophysiology of Diabetes: Using Data to Guide Discovery** *CLINICAL CHEMISTRY*  
Katz, D. H., Gerszten, R. E.  
2018; 64 (8): 1250-1251
- **Phenomapping for the Identification of Hypertensive Patients with the Myocardial Substrate for Heart Failure with Preserved Ejection Fraction** *JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH*  
Katz, D. H., Deo, R. C., Aguilar, F. G., Selvaraj, S., Martinez, E. E., Beussink-Nelson, L., Kim, K. A., Peng, J., Irvin, M. R., Tiwari, H., Rao, D. C., Arnett, D. K., Shah, et al  
2017; 10 (3): 275-284
- **Archeological Echocardiography: Digitization and Speckle Tracking Analysis of Archival Echocardiograms in the HyperGEN Study** *ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED TECHNIQUES*  
Aguilar, F. G., Selvaraj, S., Martinez, E. E., Katz, D. H., Beussink, L., Kim, K. A., Ping, J., Rasmussen-Torvik, L., Goyal, A., Sha, J., Irvin, M. R., Arnett, D. K., Shah, et al  
2016; 33 (3): 386-397
- **Association of Chronic Kidney Disease With Chronotropic Incompetence in Heart Failure With Preserved Ejection Fraction** *AMERICAN JOURNAL OF CARDIOLOGY*  
Klein, D. A., Katz, D. H., Beussink-Nelson, L., Sanchez, C. L., Strzelczyk, T. A., Shah, S. J.  
2015; 116 (7): 1093-1100
- **Phenomapping for Novel Classification of Heart Failure With Preserved Ejection Fraction** *CIRCULATION*  
Shah, S. J., Katz, D. H., Selvaraj, S., Burke, M. A., Yancy, C. W., Gheorghiade, M., Bonow, R. O., Huang, C., Deo, R. C.  
2015; 131 (3): 269-+
- **Albuminuria Is Independently Associated With Cardiac Remodeling, Abnormal Right and Left Ventricular Function, and Worse Outcomes in Heart Failure With Preserved Ejection Fraction** *JACC-HEART FAILURE*  
Katz, D. H., Burns, J. A., Aguilar, F. G., Beussink, L., Shah, S. J.  
2014; 2 (6): 586-596
- **Addressing Statin Adverse Effects in the Clinic: The 5 Ms** *JOURNAL OF CARDIOVASCULAR PHARMACOLOGY AND THERAPEUTICS*  
Katz, D. H., Intwala, S. S., Stone, N. J.  
2014; 19 (6): 533-542

- **Phenotypic Spectrum of Heart Failure with Preserved Ejection Fraction** *HEART FAILURE CLINICS*  
Shah, S. J., Katz, D. H., Deo, R. C.  
2014; 10 (3): 407-+
- **Aggressive Lipid Management in Very Elderly Adults: Less Is More Response** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*  
Stone, N. J., Intwala, S., Katz, D.  
2014; 62 (5): 947-948
- **Statins in Very Elderly Adults (Debate)** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*  
Stone, N. J., Intwala, S., Katz, D.  
2014; 62 (5): 943-945
- **Prognostic Importance of Pathophysiologic Markers in Patients With Heart Failure and Preserved Ejection Fraction** *CIRCULATION-HEART FAILURE*  
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- **Association of Low-Grade Albuminuria With Adverse Cardiac Mechanics Findings From the Hypertension Genetic Epidemiology Network (HyperGEN) Study** *CIRCULATION*  
Katz, D. H., Selvaraj, S., Aguilar, F. G., Martinez, E. E., Beussink, L., Kim, K. A., Peng, J., Sha, J., Irvin, M. R., Eckfeldt, J. H., Turner, S. T., Freedman, B. I., Arnett, et al  
2014; 129 (1): 42-+
- **Prevalence, Clinical Characteristics, and Outcomes Associated With Eccentric Versus Concentric Left Ventricular Hypertrophy in Heart Failure With Preserved Ejection Fraction** *AMERICAN JOURNAL OF CARDIOLOGY*  
Katz, D. H., Beussink, L., Sauer, A. J., Freed, B. H., Burke, M. A., Shah, S. J.  
2013; 112 (8): 1158-1164