Stanford

Guson Kang

Clinical Assistant Professor, Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **VA Palo Alto Health Care System**
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Bio

BIO

Dr. Kang is an interventional cardiologist who specializes in the treatment of structural heart disease. He is an expert in complex coronary interventions, transcatheter aortic, mitral, and tricuspid valve replacements, transcatheter mitral and tricuspid valve repair, left atrial appendage occlusion, PFO/septal defect closure, alcohol septal ablation, paravalvular leak closure, balloon pulmonary angioplasty, and pulmonary vein stenting.

A Bay Area native, he graduated from Stanford University and obtained his medical degree at Yale University. He came back to Stanford to train in internal medicine, cardiology, and interventional cardiology before completing an advanced structural interventions fellowship at Ford Hospital.

CLINICAL FOCUS

- Interventional Cardiology
- Structural Interventions
- Balloon Pulmonary Angioplasty
- CTEPH

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Program Director, Interventional Cardiology Fellowship, (2025- present)

PROFESSIONAL EDUCATION

- Board Certification: Adult Echocardiography, National Board of Echocardiography (2018)
- Fellowship, Henry Ford Hospital , Structural Interventions (2020)
- Fellowship, Stanford University , Interventional Cardiology (2019)
- Fellowship, Stanford University , Cardiovascular Medicine (2018)

- Residency, Stanford University , Internal Medicine (2015)
- Internship, Stanford University , Internal Medicine (2013)
- MD, Yale School of Medicine , Medicine (2012)
- BS, Stanford University , Biological Sciences (2006)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2015)

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Interventional Cardiology (Fellowship Program)

Publications

PUBLICATIONS

- **"A Responsible Framework for Applying Artificial Intelligence on Medical Images and Signals at the Point of Care: The PACS-AI Platform [Canadian Journal of Cardiology Volume 40, Issue 10, October 2024, Pages 1828-1840]".** *The Canadian journal of cardiology*
  Theriault-Lauzier, P., Corbin, D., Tastet, O., Langlais, E. L., Taji, B., Kang, G., Chong, A., So, D., Tang, A., Gichoya, J. W., Chandar, S., Deziel, P., Hussin, et al
  2025

- **A deep learning phenome wide association study of the electrocardiogram.** *European heart journal. Digital health*
  Hughes, J. W., Theurer, J., Vukadinovic, M., Rogers, A. J., Somani, S., Kang, G., Ghazizadeh, Z., O'Sullivan, J. W., Jain, S. S., Gomes, B., Salerno, M., Ashley, E., Zou, et al
  2025; 6 (4): 595-607

- **A deep learning phenome wide association study of the electrocardiogram** *EUROPEAN HEART JOURNAL - DIGITAL HEALTH*
  Hughes, J., Theurer, J., Vukadinovic, M., Rogers, A. J., Somani, S., Kang, G., Ghazizadeh, Z., O'Sullivan, J. W., Jain, S. S., Gomes, B., Salerno, M., Ashley, E., Zou, et al
  2025

- **Transcatheter Aortic Valve Replacement in Patients With Interventricular Membranous Septal Aneurysms.** *JACC. Case reports*
  Theriault-Lauzier, P., Dawson, L. P., Wong, C. C., Sharma, R. P., Fearon, W. F., Kang, G., MacArthur, J. W., Pogatchnik, B. P., Krishnam, M. S., Yeung, A. C.
  2025; 30 (1): 102715

- **Racial Inequities in Cardiovascular Procedure Use Influenced by Health- Related Social Needs**
  Amponsah, D., Beyene, T., Song, N., Pillai, B., Ndukwe, M., Kang, G., Fearon, W., Asch, S., Heidenreich, P., Yong, C.
  ELSEVIER SCIENCE INC.2024: B313-B314

- **Racial and Ethnic Differences in Adoption of Mitral Valve Transcatheter Edge-to-Edge Repair Over a Decade in the National Veterans Affairs Healthcare System.** *Journal of the American Heart Association*
  Pillai, B., Beyene, T. J., Kang, G., Amponsah, D., Heidenreich, P. A., Yong, C. M.
  2024; 13 (19): e035767

- **A responsible framework for applying artificial intelligence on medical images and signals at the point-of-care: the PACS-AI platform.** *The Canadian journal of cardiology*
  Theriault-Lauzier, P., Cobin, D., Tastet, O., Langlais, E. L., Taji, B., Kang, G., Chong, A., So, D., Tang, A., Gichoya, J. W., Chandar, S., Deziel, P., Hussin, et al
  2024

- **Race, Sex, and Age Disparities in the Performance of ECG Deep Learning Models Predicting Heart Failure.** *Circulation. Heart failure*
  Kaur, D., Hughes, J. W., Rogers, A. J., Kang, G., Narayan, S. M., Ashley, E. A., Perez, M. V.
  2023: e010879

- **A deep learning-based electrocardiogram risk score for long term cardiovascular death and disease.** *NPJ digital medicine*
  Hughes, J. W., Tooley, J., Torres Soto, J., Ostropolets, A., Poterucha, T., Christensen, M. K., Yuan, N., Ehlert, B., Kaur, D., Kang, G., Rogers, A., Narayan, S., Elias, et al

2023; 6 (1): 169

- **Distance between valvular leaflet and coronary ostium predicting risk of coronary obstruction during TAVR.** *International journal of cardiology. Heart & vasculature*
  Oh, J., Kobayashi, Y., Kang, G., Nishi, T., Willemink, M. J., Fearon, W. F., Fischbein, M., Fleishmann, D., Yeung, A. C., Kim, J. B.
  1800; 37: 100917

- **Choosing Between Transcatheter Aortic Valve Replacement and Surgery in the Low-Risk Transcatheter Aortic Valve Replacement Era.** *Interventional cardiology clinics*
  Kang, G., Yeung, A.
  2021; 10 (4): 413-422

- **Chase the Leak - A Case of Valve-in-Ring with Mitral PVL Closure**
  So, C., Kang, G., Eng, M.
  ELSEVIER SCIENCE INC.2021: S247–S248

- **Deep Neural Network Trained on Surface ECG Improves Diagnostic Accuracy of Prior Myocardial Infarction Over Q Wave Analysis**
  Yildirim, O., Baloglu, U. B., Talo, M., Ganesan, P., Tung, J. S., Kang, G., Tooley, J., Alhusseini, M., Baykaner, T., Wang, P. J., Perez, M., Tereshchenko, L., Narayan, et al
  IEEE.2021

- **Spontaneous Coronary Artery Dissection and ST-Segment Elevation Myocardial Infarction in an Anomalous LAD Artery** *JACC: Case Reports*
  Kang, G., Sarraju, A., Nishi, T., Rogers, I., Tremmel, J., Kim, J.
  2020

- **A novel noninvasive method for remote heart failure monitoring: the EuleriAn video Magnification apPLications In heart Failure studY (AMPLIFY).** *NPJ digital medicine*
  Abnousi, F., Kang, G., Giacomini, J., Yeung, A., Zarafshar, S., Vesom, N., Ashley, E., Harrington, R., Yong, C.
  2019; 2: 80

- **Expanding transcatheter aortic valve replacement into uncharted indications.** *The Korean journal of internal medicine*
  Kang, G., Kim, J. B.
  2018; 33 (3): 474–82

- **Neprilysin Inhibitors in Cardiovascular Disease.** *Current cardiology reports*
  Kang, G., Banerjee, D.
  2017; 19 (2): 16-?

- **Pulmonary artery pulsatility index predicts right ventricular failure after left ventricular assist device implantation.** *journal of heart and lung transplantation*
  Kang, G., Ha, R., Banerjee, D.
  2016; 35 (1): 67-73