Stanford



Benjamin LZ Shou

Resident in Cardiothoracic Surgery - Thoracic Surgery

Bio

BIO

Benjamin Shou is a resident in the integrated cardiothoracic surgery program. He attended medical school at Johns Hopkins and completed his undergraduate degree at University of California, Los Angeles, in Molecular, Cell, and Developmental Biology with a concentration in Computational Biology. His academic interests include adult cardiac surgery, imaging, and artificial intelligence in healthcare.

CLINICAL FOCUS

- Residency
- Cardiac Surgery
- Thoracic Surgery

PROFESSIONAL EDUCATION

- BS, University of California, Los Angeles , Molecular, Cell, and Developmental Biology (2019)
- MD, Johns Hopkins University School of Medicine (2024)

Publications

PUBLICATIONS

- **Pick Your Perfusion: National Outcomes of Normothermic Regional Perfusion versus Direct Procurement and Perfusion in Donation After Circulatory Death Cardiac Transplants.** *The Journal of thoracic and cardiovascular surgery*
  Shou, B. L., Goerlich, C. E., Zhou, A. L., Ruaengsri, C., Shudo, Y., Hiesinger, W.
  2026
- **The influence of a longitudinal virtual research mentorship program on medical students' research skills.** *JTCVS open*
  Dafflisio, G., Uzoigwe, N., Treffalls, J. A., Xu, S., Shou, B. L., Trager, L. E., Ben-Or, S., Wallen, T., Petrov, R. V., Bakhos, C., Yendamuri, S., Jarrar, D.
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- **Modified Thoracoabdominal Approach for the Repair of Massive Diaphragmatic Hernias.** *Annals of thoracic surgery short reports*
  Shou, B. L., Dalal, A. R., Guenthart, B. A.
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- **Re-evaluating the association between thrombocytopenia and bleeding in extracorporeal membrane oxygenation (ECMO)** *PERFUSION-UK*
  Leng, A., Rando, H., Shah, M., Akbar, A., Shou, B., Kalra, A., Cho, S., Whitman, G. J. R., HERALD Investigators
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- **High-Granularity Machine Learning Prediction of Acute Brain Injury in Patients Receiving Venoarterial Extracorporeal Membrane Oxygenation** *ASAIO JOURNAL*
  Cao, M., Feng, S., Ahmed, Y. B., Liu, W., Brown, P., Kalra, A., Shou, B., Bezerianos, A., Thakor, N., Whitman, G., Cho, S., HERALD Investigators
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- **Ross after David: Management of the fused plane between the prior reimplantation valve-sparing aortic root replacement and the pulmonary autograft** *JTCVS TECHNIQUES*
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- **Ross after David: Management of the fused plane between the prior reimplantation valve-sparing aortic root replacement and the pulmonary autograft.** *JTCVS techniques*
  Pedroza, A. J., Shou, B., Bustos, M., Liou, K., Woo, Y. J.
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- **Ex vivo optimization of a bicuspid pulmonary valve using the resequenced composite autograft Ross technique.** *JTCVS techniques*
  Pedroza, A. J., Shou, B., Woo, Y. J.
  2025; 33: 75-78
- **Ex vivo optimization of a bicuspid pulmonary valve using the resequenced composite autograft Ross technique** *JTCVS TECHNIQUES*
  Pedroza, A. J., Shou, B., Woo, Y.
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- **Enhancing Survival Prediction After Venoarterial Extracorporeal Membrane Oxygenation Using Machine Learning.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Leng, A., Bachina, P., Liu, O., Shou, B., Racz, C., Giliver, D. A., Shpitser, I., Whitman, G. J., Cho, S., HERALD Investigators
  2025
- **Concurrent aortic valve replacement and splenectomy for Q-fever endocarditis with massive splenomegaly and pancytopenia.** *JTCVS techniques*
  Weininger, G., Pedroza, A. J., Shou, B. L., Forrester, J. D., Lin, Y.
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- **A Novel, Interpretable Machine Learning Model to Predict Neurological Outcomes Following Venoarterial Extracorporeal Membrane Oxygenation.** *Neurocritical care*
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- **Long-term outcomes of heparin-induced thrombocytopenia after cardiac surgery** *JTCVS OPEN*
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- **Pulse Pressure and Acute Brain Injury in Venoarterial Extracorporeal Membrane Oxygenation: An Extracorporeal Life Support Organization Registry Analysis** *ASAIO JOURNAL*
  Kalra, A., Kang, J., Wilcox, C., Shou, B. L., Brown, P., Rycus, P., Anders, M. M., Zaaqoq, A. M., Brodie, D., Whitman, G. J. R., Cho, S., HERALD Grp
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- **Advancements in Computed Tomography Analysis for Thoracic Aortic Surgery: The Expanding Role of Automation** *HEART SURGERY FORUM*
  Chatterjee, D., Singh, S., Shou, B. L.
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- **Bigger pies, bigger slices: Increased hospitalization costs for lung transplantation recipients in the non-donation service area allocation era**
  Kalra, A., Ruck, J. M., Zhou, A. L., Akbar, A. F., Shou, B. L., Casillan, A. J., Ha, J. S., Merlo, C. A., Bush, E. L.
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- **Changes in Donor Utilization and Outcomes for Patients Bridged With Durable Left Ventricular Assist Device** *ASAIO JOURNAL*
  Akbar, A. F., Perdomo, D., Shou, B. L., Zhou, A. L., Ruck, J. M., Kilic, A.

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- **Using machine learning to predict neurologic injury in venovenous extracorporeal membrane oxygenation recipients: An ELSO Registry analysis** *JTCVS OPEN*
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- **Acute brain injury risk prediction models in venoarterial extracorporeal membrane oxygenation patients with tree-based machine learning: An Extracorporeal Life Support Organization Registry analysis** *JTCVS OPEN*
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- **Impact of Extracorporeal Membrane Oxygenation Bridging Duration on Lung Transplant Outcomes** *ANNALS OF THORACIC SURGERY*
  Shou, B. L., Kalra, A., Zhou, A. L., Barbur, I., McGoldrick, M., Larson, E., Keller, S. P., Kim, B., Whitman, G. J. R., Cho, S., Bush, E. L.
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- **Impact of Heart Failure Etiology on Waitlist Mortality in Heart Transplant Candidates Supported With Extracorporeal Membrane Oxygenation** *CLINICAL TRANSPLANTATION*
  Shah, M. M., Rodriguez, E., Shou, B. L., Jenkins, R. T., Rando, H., Kilic, A.
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- **Machine Learning from Veno-Venous Extracorporeal Membrane Oxygenation Identifies Factors Associated with Neurological Outcomes** *LUNG*
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- **Extracorporeal Membrane Oxygenation Physiological Factors Influence Pulse Oximetry and Arterial Oxygen Saturation Discrepancies** *ANNALS OF THORACIC SURGERY*
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- **The impact of local programmatic decisions on outcomes in transplant-listed adults with congenital heart disease.** *Journal of cardiac failure*
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- **Trends on Near-Infrared Spectroscopy Associated With Acute Brain Injury in Venoarterial Extracorporeal Membrane Oxygenation** *ASAIO JOURNAL*
  Zhao, D., Shou, B. L., Caturegli, G., Whitman, G. J. R., Kim, B., Cho, S.
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- **Incidence, risk factors, and outcomes of postoperative stroke in combined heart-lung transplantation: A retrospective cohort study of the UNOS registry** *CLINICAL TRANSPLANTATION*
  Akbar, A. F., Shou, B. L., Casillan, A. J., Kilic, A., Bush, E. L., Whitman, G., Cho, S.
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- **Epidemiology of ischemic stroke and hemorrhagic stroke in venoarterial extracorporeal membrane oxygenation** *CRITICAL CARE*
  Hwang, J., Kalra, A., Shou, B. L., Whitman, G., Wilcox, C., Brodie, D., Zaaqoq, A. M., Lorusso, R., Uchino, K., Cho, S.
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- **Risk Factors for Nondiagnostic Imaging in a Real-World Deployment of Artificial Intelligence Diabetic Retinal Examinations in an Integrated Health care System: Maximizing Workflow Efficiency Through Predictive Dilation** *JOURNAL OF DIABETES SCIENCE AND TECHNOLOGY*
  Shou, B. L., Venkatesh, K., Chen, C., Ghidey, R., Lee, J., Wang, J., Channa, R., Wolf, R. M., Abramoff, M. D., Liu, T.
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  Kalra, A., Shou, B. L., Zhao, D., Wilcox, C., Keller, S. P., Whitman, G. J. R., Kim, B., Cho, S., HERALD Investigators
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- **Understanding barriers to medical appointment keeping: A case-control study of predictive factors for no-shows and same-day cancellations in dermatology clinics in an academic medical center in the United States** *JAAD INTERNATIONAL*
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- **Prophylactic Hysterectomy During Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy for High Grade Tumors is Associated with Fewer Pelvic Recurrences** *ANNALS OF SURGICAL ONCOLOGY*
  Florissi, I. S. S., Radomski, S. N. N., Winicki, N. M. M., Shou, B., Johnston, F. M. M., Greer, J. B. B.

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- **Characteristics of delirium and its association with sedation and in-hospital mortality in patients with COVID-19 on veno-venous extracorporeal membrane oxygenation** *FRONTIERS IN MEDICINE*
  Sun, P., Fanning, J., Peeler, A., Shou, B., Lindsley, J., Caturegli, G., Whitman, G., Cha, S., Kim, B., Cho, S.
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  Shou, B. L., Schena, S.
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- **Early United States experience with lung donation after circulatory death using thoracoabdominal normothermic regional perfusion** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
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  Fox, J. J., Hashimoto, T., Navarro, H. I., Garcia, A. J., Shou, B. L., Goldstein, A. S.
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- **Neuromonitoring detects brain injury in patients receiving extracorporeal membrane oxygenation support** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
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- **Sex differences in computed tomography angiography-derived coronary plaque burden in relation to invasive fractional flow reserve** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
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- **Lower Oxygen Tension and Intracranial Hemorrhage in Veno-venous Extracorporeal Membrane Oxygenation** *LUNG*
  Akbar, A., Shou, B., Feng, C., Zhao, D., Kim, B., Whitman, G., Bush, E., Cho, S., HERALD Investigators
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- **National Trends, Risk Factors, and Outcomes of Acute In-hospital Stroke After Lung Transplantation in the United States: Analysis of the United Network for Organ Sharing Registry.** *Chest*
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- **Arterial oxygen and carbon dioxide tension and acute brain injury in extracorporeal cardiopulmonary resuscitation patients: Analysis of the extracorporeal life support organization registry** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
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  Shou, B. L., Aravind, P., Ong, C., Alejo, D., Canner, J. K., Etchill, E. W., DiNatale, J., Prokupets, R., Esfandiary, T., Lawton, J. S., Schena, S.
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- **Perivascular fat attenuation for predicting adverse cardiac events in stable patients undergoing invasive coronary angiography** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
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- **Arterial Carbon Dioxide and Acute Brain Injury in Venoarterial Extracorporeal Membrane Oxygenation** *ASAIO JOURNAL*
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  Zhou, A. L., Etchill, E. W., Shou, B. L., Whitbread, J. J., Barbur, I., Giuliano, K. A., Kilic, A.
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- **Trends, Outcomes, and Predictors of Acute In-hospital Stroke after Lung Transplantation: An Analysis of the United Network for Organ Sharing Database**
  Shou, B. L., Wilcox, C., Krishnan, A., Kim, B. S., Keller, S. P., Whitman, G. J. R., Uchino, K., Bush, E. L., Cho, S.
  LIPPINCOTT WILLIAMS & WILKINS.2022: S265

- **Machine Learning From Quantitative Coronary Computed Tomography Angiography Predicts Fractional Flow Reserve-Defined Ischemia and Impaired Myocardial Blood Flow** *CIRCULATION-CARDIOVASCULAR IMAGING*
  Lin, A., van Diemen, P. A., Motwani, M., McElhinney, P., Otaki, Y., Han, D., Kwan, A., Tzolos, E., Klein, E., Kuronuma, K., Grodecki, K., Shou, B., Rios, et al
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- **Twelve-month observational study of children with cancer in 41 countries during the COVID-19 pandemic** *BMJ GLOBAL HEALTH*
  Bandyopadhyay, S., Peter, N., Lakhoo, K., Abib, S., Abdelhafeez, H., Wilson, S., Pachl, M., Martin, B., Nagras, S., Sheth, M., Dominic, C., Gandhi, S., Parwani, et al
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- **Early Low Pulse Pressure in VA-ECMO Is Associated with Acute Brain Injury** *NEUROCRITICAL CARE*
  Shou, B. L., Wilcox, C., Florissi, I., Kalra, A., Caturegli, G., Zhang, L. Q., Bush, E., Kim, B., Keller, S. P., Whitman, G. J. R., Cho, S., HERALD Investigators
  2023; 38 (3): 612-621

- **Pre-operative Machine Learning for Heart Transplant Patients Bridged with Temporary Mechanical Circulatory Support** *JOURNAL OF CARDIOVASCULAR DEVELOPMENT AND DISEASE*
  Shou, B. L., Chatterjee, D., Russel, J. W., Zhou, A. L., Florissi, I. S., Lewis, T., Verma, A., Benharash, P., Choi, C.
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- **Temporary Mechanical Circulatory Support for Transcatheter Aortic Valve Replacement** *JOURNAL OF SURGICAL RESEARCH*
  Shou, B. L., Verma, A., Florissi, I. S., Schena, S., Benharash, P., Choi, C.
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- **Massive left atrial thrombus evades multimodality imaging as a myxoma in a bicaval heart transplant recipient** *JOURNAL OF CARDIAC SURGERY*
  Shou, B. L., Halub, M. E., Zhou, A. L., Thompkins, B. A., Choi, C. W.
  2022; 37 (9): 2884-2887

- **Resting Energy Expenditure of Patients on Venovenous Extracorporeal Membrane Oxygenation for Adult Respiratory Distress Syndrome: A Pilot Study** *CRITICAL CARE EXPLORATIONS*
  Ong, C., Brown, P., Shou, B. L., Wilcox, C., Cho, S., Mendez-Tellez, P., Kim, B., Whitman, G. J. R., HERALD Investigators
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- **Caseous necrosis of the mitral annulus masquerading as an intracardiac mass.** *Global cardiology science & practice*
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- **Relative contributions of sex hormones, sex chromosomes, and gonads to sex differences in tissue gene regulation** *GENOME RESEARCH*
  Blencowe, M., Chen, X., Zhao, Y., Itoh, Y., McQuillen, C. N., Han, Y., Shou, B. L., McClusky, R., Reue, K., Arnold, A. P., Yang, X.
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- **Massive primary cardiac synovial sarcoma of the left atrium: a case report** *JOURNAL OF CARDIOTHORACIC SURGERY*
  Zhou, A. L., Halub, M. E., Gross, J. M., Shou, B. L., Kilic, A.
  2022; 17 (1): 76

- **Impact of the COVID-19 pandemic on patients with paediatric cancer in low-income, middle-income and high-income countries: a multicentre, international, observational cohort study** *BMJ OPEN*
  Bandyopadhyay, S., Peter, N., Lakhoo, K., Vieira Abib, S., Abdelhafeez, H., Wilson, S., Pachl, M., Martin, B., Nagras, S., Sheth, M., Dominic, C., Gandhi, S., Parwani, et al
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- **Pulmonary artery transection for resection of a middle mediastinal paraganglioma** *CLINICAL CASE REPORTS*
  Zhou, A. L., Halub, M. E., Lotfalla, M., Shou, B. L., Kilic, A.
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- **Mild hypothermia and neurologic outcomes in patients undergoing venoarterial extracorporeal membrane oxygenation** *JOURNAL OF CARDIAC SURGERY*
  Al-Kawaz, M., Shou, B., Prokupets, R., Whitman, G., Geocadin, R., Cho, S.
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- **Bridge to transplantation from mechanical circulatory support: a narrative review** *JOURNAL OF THORACIC DISEASE*
  Zhou, A. L., Etchill, E. W., Giuliano, K. A., Shou, B. L., Sharma, K., Choi, C. W., Kilic, A.
  2021; 13 (12): 6911-6923

- **Systematic evaluation of transcriptomics-based deconvolution methods and references using thousands of clinical samples** *BRIEFINGS IN BIOINFORMATICS*
  Nadel, B. B., Oliva, M., Shou, B. L., Mitchell, K., Ma, F., Montoya, D. J., Mouton, A., Kim-Hellmuth, S., Stranger, B. E., Pellegrini, M., Mangul, S.
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- **MACHINE LEARNING ISCHEMIA RISK SCORE FROM CORONARY CT ANGIOGRAPHY PREDICTS LESION-SPECIFIC ISCHEMIA AND IMPAIRED MYOCARDIAL BLOOD FLOW: RESULTS FROM THE PACIFIC TRIAL**
  Lin, A., Van Diemen, P., Motwani, M., McElhinney, P., Otaki, Y., Kwan, A., Han, D., Kuronuma, K., Klein, E., Grodecki, K., Shou, B., Cadet, S., Danad, et al
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