

Stanford



Michael Paulsen

Clinical Instructor, Cardiothoracic Surgery

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- **Cardiothoracic Surgery**

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CLINICAL FOCUS

- Thoracic and Cardiac Surgery

ACADEMIC APPOINTMENTS

- Clinical Instructor, Cardiothoracic Surgery
- Member (Postdoc), Cardiovascular Institute

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Cardiothoracic Surgery (2023) CA
- Internship: Stanford University Dept of General Surgery (2015) CA
- Medical Education: University of Michigan Medical School (2014) MI
- Post-Doctoral Research Fellow, Stanford University Department of Cardiothoracic Surgery
- Residency, Stanford University Medical Center , Cardiothoracic Surgery
- Internship, Stanford University Medical Center , Cardiothoracic Surgery (2015)
- MD, University of Michigan Medical School (2014)
- BBA, University of Michigan Ross School of Business (2009)

Publications

PUBLICATIONS

- **Trimmed central venous catheters do not increase endothelial injury in an ovine model.** *The journal of vascular access*
Wang, H., Williams, K. M., Elde, S., Bulterys, P. L., Thakore, A. D., Lucian, H. J., Farry, J. M., Mullis, D. M., Zhu, Y., Paulsen, M. J., Woo, Y. J.
2023: 11297298231153716
- **Force Profiles of Single Ventricle Atrioventricular Leaflets in Response to Annular Dilation and Leaflet Tethering.** *Seminars in thoracic and cardiovascular surgery*
Kidambi, S., Moye, S. C., Lee, J., Cowles, T. H., Strong, E. B., Wilkerson, R., Paulsen, M. J., Woo, Y. J., Ma, M. R.

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- **DynaRing: A Patient-Specific Mitral Annuloplasty Ring With Selective Stiffness Segments.** *Journal of medical devices*
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- **FDA Emergency Use Authorization-Approved Novel Coronavirus Disease 2019, Pressure-Regulated, Mechanical Ventilator Splitter That Enables Differential Compliance Multiplexing.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
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- **A Novel Device for Intraoperative Direct Visualization of a Pressurized Root in Aortic Valve Repair.** *The Annals of thoracic surgery*
Zhu, Y., Imbrie-Moore, A. M., Paulsen, M. J., Park, M. H., Tran, N. A., Woo, Y. J.
2022
- **Biomechanical engineering analysis of an acute papillary muscle rupture disease model using an innovative 3D-printed left heart simulator.** *Interactive cardiovascular and thoracic surgery*
Marin-Cuartas, M., Zhu, Y., Imbrie-Moore, A. M., Park, M. H., Wilkerson, R. J., Leipzig, M., Pandya, P. K., Paulsen, M. J., Borger, M. A., Woo, Y. J.
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- **Natural cardiac regeneration conserves native biaxial left ventricular biomechanics after myocardial infarction in neonatal rats.** *Journal of the mechanical behavior of biomedical materials*
Wang, H., Wisneski, A., Imbrie-Moore, A. M., Paulsen, M. J., Wang, Z., Xuan, Y., Lopez Hernandez, H., Hironaka, C. E., Lucian, H. J., Shin, H. S., Anilkumar, S., Thakore, A. D., Farry, et al
1800; 126: 105074
- **Electrophysiologic Conservation of Epicardial Conduction Dynamics After Myocardial Infarction and Natural Heart Regeneration in Newborn Piglets.** *Frontiers in cardiovascular medicine*
Wang, H., Pong, T., Obafemi, O. O., Lucian, H. J., Aparicio-Valenzuela, J., Tran, N. A., Mullis, D. M., Elde, S., Tada, Y., Baker, S. W., Wang, C. Y., Cyr, K. J., Paulsen, et al
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- **Biomechanical engineering comparison of four leaflet repair techniques for mitral regurgitation using a novel 3-dimensional-printed left heart simulator.** *JTCVS TECHNIQUES*
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- **Biomechanical engineering comparison of four leaflet repair techniques for mitral regurgitation using a novel 3-dimensional-printed left heart simulator.** *JTCVS techniques*
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- **From hardware store to hospital: a COVID-19-inspired, cost-effective, open-source, in vivo-validated ventilator for use in resource-scarce regions.** *Bio-design and manufacturing*
Park, M. H., Zhu, Y., Wang, H., Tran, N. A., Jung, J., Paulsen, M. J., Imbrie-Moore, A. M., Baker, S., Wilkerson, R., Marin-Cuartas, M., Mullis, D. M., Woo, Y. J.
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- **A neonatal leporine model of age-dependent natural heart regeneration after myocardial infarction.** *The Journal of thoracic and cardiovascular surgery*
Wang, H., Hironaka, C. E., Mullis, D. M., Lucian, H. J., Shin, H. S., Tran, N. A., Thakore, A. D., Anilkumar, S., Wu, M. A., Paulsen, M. J., Zhu, Y., Baker, S. W., Woo, et al
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- **Heart Valve Biomechanics: The Frontiers of Modeling Modalities and the Expansive Capabilities of Ex Vivo Heart Simulation.** *Frontiers in cardiovascular medicine*
Park, M. H., Zhu, Y., Imbrie-Moore, A. M., Wang, H., Marin-Cuartas, M., Paulsen, M. J., Woo, Y. J.
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- **Electrophysiologic Conservation of Epicardial Conduction Dynamics After Myocardial Infarction in Newborn Piglets**
Wang, H., Pong, T., Lucian, H., Aparicio-Valenzuela, J., Tada, Y., Sakhamuri, S., Baker, S. W., Tran, N. A., Paulsen, M. J., Zhu, Y., Lee, A. M., Woo, Y.
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- **Economic Analysis and Long-Term Follow-Up of Distant Referral for Degenerative Mitral Valve Repair.** *The Annals of thoracic surgery*
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2020
- **Ex Vivo Analysis of a Porcine Bicuspid Aortic Valve and Aneurysm Disease Model.** *The Annals of thoracic surgery*
Zhu, Y., Imbrie-Moore, A. M., Park, M. H., Paulsen, M. J., Wang, H., MacArthur, J. W., Woo, Y. J.
2020
- **Novel bicuspid aortic valve model with aortic regurgitation for hemodynamic status analysis using an exvivo simulator.** *The Journal of thoracic and cardiovascular surgery*
Zhu, Y., Imbrie-Moore, A. M., Paulsen, M. J., Priromprintr, B., Wang, H., Lucian, H. J., Farry, J. M., Woo, Y. J.
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- **Safety of photosynthetic *Synechococcus elongatus* for in vivo cyanobacteria-mammalian symbiotic therapeutics.** *Microbial biotechnology*
Williams, K. M., Wang, H., Paulsen, M. J., Thakore, A. D., Rieck, M., Lucian, H. J., Grady, F., Hironaka, C. E., Chien, A. J., Farry, J. M., Shin, H. S., Jaatinen, K. J., Eskandari, et al
2020
- **Multiaxial Lenticular Stress-Strain Relationship of Native Myocardium is Preserved by Infarct-Induced Natural Heart Regeneration in Neonatal Mice.** *Scientific reports*
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- **A novel cross-species model of Barlow's disease to biomechanically analyze repair techniques in an exvivo left heart simulator.** *The Journal of thoracic and cardiovascular surgery*
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- **A novel 3D-Printed preferential posterior mitral annular dilation device delineates regurgitation onset threshold in an ex vivo heart simulator.** *Medical engineering & physics*
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- **Natural Heart Regeneration in a Neonatal Rat Myocardial Infarction Model.** *Cells*
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- **SELECTIVELY COMPLIANT ANNULOPLASTY RING TO ENABLE ANNULAR DYNAMICS IN MITRAL VALVE REPAIR EVALUATED BY IN-VITRO STEREOVISION**
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AMER SOC MECHANICAL ENGINEERS.2020
- **Artificial papillary muscle device for off-pump transapical mitral valve repair.** *The Journal of thoracic and cardiovascular surgery*

Imbrie-Moore, A. M., Zhu, Y. n., Park, M. H., Paulsen, M. J., Wang, H. n., Woo, Y. J.
2020

- **Biomimetic six-axis robots replicate human cardiac papillary muscle motion: pioneering the next generation of biomechanical heart simulator technology.** *Journal of the Royal Society, Interface*
Imbrie-Moore, A. M., Park, M. H., Paulsen, M. J., Sellke, M. n., Kulkarni, R. n., Wang, H. n., Zhu, Y. n., Farry, J. M., Bourdillon, A. T., Callinan, C. n., Lucian, H. J., Hironaka, C. E., Deschamps, et al
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- **A Bioengineered Neuregulin-Hydrogel Therapy Reduces Scar Size and Enhances Post-Infarct Ventricular Contractility in an Ovine Large Animal Model.** *Journal of cardiovascular development and disease*
Cohen, J. E., Goldstone, A. B., Wang, H. n., Purcell, B. P., Shudo, Y. n., MacArthur, J. W., Steele, A. N., Paulsen, M. J., Edwards, B. B., Aribena, C. N., Cheung, N. C., Burdick, J. A., Woo, et al
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- **Comprehensive Ex Vivo Comparison of 5 Clinically Used Conduit Configurations for Valve-Sparing Aortic Root Replacement Using a 3-Dimensional-Printed Heart Simulator.** *Circulation*
Paulsen, M. J., Imbrie-Moore, A. M., Baiocchi, M. n., Wang, H. n., Hironaka, C. E., Lucian, H. J., Farry, J. M., Thakore, A. D., Zhu, Y. n., Ma, M. n., MacArthur, J. W., Woo, Y. J.
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- **Quadrupling the N95 Supply during the COVID-19 Crisis with an Innovative 3D-Printed Mask Adaptor.** *Healthcare (Basel, Switzerland)*
Imbrie-Moore, A. M., Park, M. H., Zhu, Y. n., Paulsen, M. J., Wang, H. n., Woo, Y. J.
2020; 8 (3)
- **A Novel Aortic Regurgitation Model from Cusp Prolapse with Hemodynamic Validation Using an Ex Vivo Left Heart Simulator.** *Journal of cardiovascular translational research*
Zhu, Y. n., Imbrie-Moore, A. M., Paulsen, M. J., Priomprintr, B. n., Park, M. H., Wang, H. n., Lucian, H. J., Farry, J. M., Woo, Y. J.
2020
- **In Vivo Validation of Restored Chordal Biomechanics After Mitral Ring Annuloplasty in a Rare Ovine Case of Natural Chronic Functional Mitral Regurgitation.** *Journal of cardiovascular development and disease*
Wang, H. n., Paulsen, M. J., Imbrie-Moore, A. M., Tada, Y. n., Bergamasco, H. n., Baker, S. W., Shudo, Y. n., Ma, M. n., Woo, J. Y.
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- **Mitral chordae tendineae force profile characterization using a posterior ventricular anchoring neochordal repair model for mitral regurgitation in a three-dimensional-printed ex vivo left heart simulator.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
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- **Custom Patient-Specific Three-Dimensional Printed Mitral Valve Models for Pre-Operative Patient Education Enhance Patient Satisfaction and Understanding** *JOURNAL OF MEDICAL DEVICES-TRANSACTIONS OF THE ASME*
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- **Neonatal Heart Regeneration Preserves Native Ventricular Biomechanical Properties After Myocardial Infarction**
Wang, H., Bennett-Kennett, R., Paulsen, M. J., Hironaka, C. E., Thakore, A. D., Farry, J. M., Eskandari, A., Lucian, H. J., Wu, M. A., Imbrie-Moore, A., Steele, A. N., Stapleton, L. M., Dauskardt, et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Bioengineered analog of stromal cell-derived factor 1 alpha preserves the biaxial mechanical properties of native myocardium after infarction** *JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS*
Wang, H., Wisneski, A., Paulsen, M. J., Imbrie-Moore, A., Wang, Z., Xuan, Y., Hernandez, H., Lucian, H. J., Eskandari, A., Thakore, A. D., Parry, J. M., Hironaka, C. E., von Bornstaedt, et al
2019; 96: 165–71
- **Modeling conduit choice for valve-sparing aortic root replacement on biomechanics with a 3-dimensional-printed heart simulator** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Paulsen, M. J., Kasinpila, P., Imbrie-Moore, A. M., Wang, H., Hironaka, C. E., Koyano, T. K., Fong, R., Chiu, P., Goldstone, A. B., Steele, A. N., Stapleton, L. M., Ma, M., Woo, et al

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- **Ex Vivo Biomechanical Study of Apical Versus Papillary Neochord Anchoring for Mitral Regurgitation**
Imbrie-Moore, A. M., Paulsen, M. J., Thakore, A. D., Wang, H., Hironaka, C. E., Lucian, H. J., Farry, J. M., Edwards, B. B., Bae, J., Cutkosky, M. R., Woo, Y.
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- **A Biocompatible Therapeutic Catheter-Deliverable Hydrogel for In Situ Tissue Engineering** *ADVANCED HEALTHCARE MATERIALS*
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Imbrie-Moore, A. M., Paulsen, M. J., Thakore, A. D., Wang, H., Hironaka, C. E., Lucian, H. J., Farry, J. M., Edwards, B. B., Bae, J. H., Cutkosky, M. R., Woo, Y. J.
2019
- **A Unique Collateral Artery Development Program Promotes Neonatal Heart Regeneration** *CELL*
Das, S., Goldstone, A. B., Wang, H., Farry, J., D'Amato, G., Paulsen, M. J., Eskandari, A., Hironaka, C. E., Phansalkar, R., Sharma, B., Rhee, S., Shamskhov, E., Agalliu, et al
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Steele, A. N., Stapleton, L. M., Farry, J. M., Lucian, H. J., Paulsen, M. J., Eskandari, A., Hironaka, C. E., Thakore, A. D., Wang, H., Yu, A. C., Chan, D., Appel, E. A., Woo, et al
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2019
- **Bioengineered analog of stromal cell-derived factor 1# preserves the biaxial mechanical properties of native myocardium after infarction.** *Journal of the mechanical behavior of biomedical materials*
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2019; 96: 165–71
- **Use of a supramolecular polymeric hydrogel as an effective post-operative pericardial adhesion barrier.** *Nature biomedical engineering*
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2019; 3 (8): 611–20
- **Development and ex vivo validation of novel force-sensing neochordae for measuring chordae tendineae tension in the mitral valve apparatus using optical fibers with embedded Bragg gratings.** *Journal of biomechanical engineering*
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Paulsen, M. J., Kasinpila, P., Imbrie-Moore, A. M., Wang, H., Hironaka, C. E., Koyano, T. K., Fong, R., Chiu, P., Goldstone, A. B., Steele, A. N., Stapleton, L. M., Ma, M., Woo, et al
2018
- **Rapid Self-Assembly of Bioengineered Cardiovascular Bypass Grafts From Scaffold-Stabilized, Tubular Bilevel Cell Sheets** *CIRCULATION*
von Bornstadt, D., Wang, H., Paulsen, M. J., Goldstone, A. B., Eskandari, A., Thakore, A., Stapleton, L., Steele, A. N., Truong, V. N., Jaatinen, K., Hironaka, C., Woo, Y.
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- **A Novel, Shear-Thinning and Rapidly Self-Healing Polymer Nanoparticle Hydrogel Diminishes Post-Operative Adhesions in Rodent and Ovine Models of Cardiac Adhesion Formation**
Stapleton, L. M., Steele, A. N., Wang, H. N., Paulsen, M. J., Hernandez, H. L., Lucian, H. J., Smith, A. A., Yu, A. C., Thakore, A. D., Eskandari, A., Farry, J. M., Williams, K. N., Hironaka, et al

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- **Experimental Insights Into Transapical Neochordoplasty: A Quantitative Examination of Neochord Placement Using an Ex Vivo Left Heart Simulator**
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- **SDF 1-alpha Attenuates Myocardial Injury Without Altering the Direct Contribution of Circulating Cells** *JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH*
Goldstone, A. B., Burnett, C. E., Cohen, J. E., Paulsen, M. J., Eskandari, A., Edwards, B. E., Ingason, A. B., Steele, A. N., Patel, J. B., MacArthur, J. W., Shizuru, J. A., Woo, Y. J.
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- **Angiogenesis precedes cardiomyocyte migration in regenerating mammalian hearts** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Ingason, A. B., Goldstone, A. B., Paulsen, M. J., Thakore, A. D., Truong, V. N., Edwards, B. B., Eskandari, A., Bollig, T., Steele, A. N., Woo, Y.
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- **SDF 1-alpha Attenuates Myocardial Injury Without Altering the Direct Contribution of Circulating Cells.** *Journal of cardiovascular translational research*
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- **Tissue-engineered smooth muscle cell and endothelial progenitor cell bi-level cell sheets prevent progression of cardiac dysfunction, microvascular dysfunction, and interstitial fibrosis in a rodent model of type 1 diabetes-induced cardiomyopathy.** *Cardiovascular diabetology*
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