

# Stanford

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## Michael Paulsen

- Affiliate, Dean's Office Operations - Dean Other
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### Bio

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#### INSTITUTE AFFILIATIONS

- Member (Postdoc), Cardiovascular Institute

### Publications

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#### 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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2022; 16 (3): 031009
- **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)*  
Paulsen, M. J., Zhu, Y., Park, M. H., Imbrie-Moore, A. M., Baker, S., Walter Edmonston, D., Dawson, T., Ly, E., Martin Bell, S., Tran, N. A., Jung, J., Cedarleaf-Pavy, J., Sridhar, et al  
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- **Ex vivo biomechanical analysis of flexible versus rigid annuloplasty rings in mitral valves using a novel annular dilation system.** *BMC cardiovascular disorders*  
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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*  
Paulsen, M. J., Cuartas, M., Imbrie-Moore, A., Wang, H., Wilkerson, R., Farry, J., Zhu, Y., Ma, M., MacArthur, J. W., Woo, Y.  
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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*  
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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.  
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- **Novel bicuspid aortic valve model with aortic regurgitation for hemodynamic status analysis using an exvivo simulator.** *The Journal of thoracic and cardiovascular surgery*  
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- **Multiaxial Lenticular Stress-Strain Relationship of Native Myocardium is Preserved by Infarct-Induced Natural Heart Regeneration in Neonatal Mice.** *Scientific reports*

- Wang, H., Bennett-Kennett, R., Paulsen, M. J., Hironaka, C. E., Thakore, A. D., Farry, J. M., Eskandari, A., Lucian, H. J., Shin, H. S., Wu, M. A., Imbrie-Moore, A. M., Steele, A. N., Stapleton, et al  
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- **A novel cross-species model of Barlow's disease to biomechanically analyze repair techniques in an ex vivo 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*  
Imbrie-Moore, A. M., Paullin, C. C., Paulsen, M. J., Grady, F., Wang, H., Hironaka, C. E., Farry, J. M., Lucian, H. J., Woo, Y. J.  
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  - **Natural Heart Regeneration in a Neonatal Rat Myocardial Infarction Model.** *Cells*  
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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*  
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  - **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*  
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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*  
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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.  
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  - **A Novel Aortic Regurgitation Model from Cusp Prolapse with Hemodynamic Validation Using an Ex Vivo Left Heart Simulator.** *Journal of cardiovascular translational research*  
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- **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*  
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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*  
Hung, K. S., Paulsen, M. J., Wang, H., Hironaka, C., Woo, Y.  
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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  
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- **Modeling conduit choice for valve-sparing aortic root replacement on biomechanics with a 3-dimensional-printed heart simulator** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
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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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- **Ex vivo biomechanical study of apical versus papillary neochord anchoring for mitral regurgitation.** *The Annals of thoracic surgery*  
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*  
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- **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*  
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- **Use of a supramolecular polymeric hydrogel as an effective post-operative pericardial adhesion barrier.** *Nature biomedical engineering*  
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- **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*  
Paulsen, M. J., Bae, J. H., Imbrie-Moore, A. n., Wang, H. n., Hironaka, C. n., Farry, J. M., Lucian, H. n., Thakore, A. n., Cutkosky, M. R., Woo, Y. J.  
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- **Modeling conduit choice for valve-sparing aortic root replacement on biomechanics with a 3-dimensional-printed heart simulator.** *The Journal of thoracic and cardiovascular surgery*  
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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  
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Experimental Insights Into Transapical Neochordoplasty: A Quantitative Examination of Neochord Placement Using an Ex Vivo Left Heart Simulator**  
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Paulsen, M. J., Bae, J., Imbrie-Moore, A. M., Wang, H., Farry, J. M., Lin, M. A., Hironaka, C. E., Lucian, H. J., Edwards, B. B., Thakore, A. D., MacArthur, J. W., Steele, A. N., Stapleton, et al  
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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.  
2018; 11 (4): 274–84
- **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.  
2018; 155 (3): 1118–+
- **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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- **An innovative biologic system for photon-powered myocardium in the ischemic heart.** *Science advances*  
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2017; 3 (6): e1603078
- **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*  
Kawamura, M. n., Paulsen, M. J., Goldstone, A. B., Shudo, Y. n., Wang, H. n., Steele, A. N., Stapleton, L. M., Edwards, B. B., Eskandari, A. n., Truong, V. N., Jaatinen, K. J., Ingason, A. B., Miyagawa, et al  
2017; 16 (1): 142