

Kevin James Cyr

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Education

- Stanford University School of Medicine** 2017 – Present
M.D. | Concentration in Bioengineering and Cardiovascular Disease
Coursework with Stanford Biodesign to develop Need Driven technology innovations and startups
- Vanderbilt University School of Engineering** 2013 – 2017
B.S. in Bioengineering | Minor in Engineering Management

Experience

- Medical Student Researcher in Cardiac Surgery Lab | Stanford University** 2017 – Present
- Designed and patented new 3D printed robotic surgical devices to enable patient-specific treatment of atrial fibrillation
 - Secured approximately \$250K in grants with multiple cross-disciplinary teams to advance device development
 - Research detailed in international publications <https://www.medgadget.com/2018/08/stanford-researchers-print-patient-specific-heart-mapping-sensors.html>
- Undergraduate Research Fellow | Vanderbilt University** 2014 – 2017
- Invented a low-cost device to diagnose Sickle Cell Disease which was patented by Vanderbilt University and licensed to a medical device development firm and is undergoing FDA approval.
 - Published a review article on microfluidic devices used to improve drug screening and pharmaceutical development
- Engineering Intern | Pendant Biosciences | Nashville, TN** 2014 – 2017
- Supported fundraising efforts during a \$1.2 million bridge funding round leading to an award as a Johnson and Johnson J Labs company in residence in Toronto.

Intellectual Property, Publications, Presentations

Patents

- U.S./ WO Patent 62844,650 *Electrode arrays for epicardial electroanatomic mapping, pacing, and ablation and methods for making such array.* Apr 2019
- U.S./ WO Patent 2017205416A1. *Devices, kits, and methods for monitoring disease states* May 2017

Publications

- Journal of American College of Cardiology** Mar 2020
"Intraoperative Inducibility of Atrial Fibrillation with Prophylactic Amiodarone Reduces Postoperative Atrial Fibrillation and Readmissions After Cardiac Surgery".
Pong, T., Cyr, K.J., Aparicio, J.V., Calrton, C., Lee, A.M.

Experimental Biology and Medicine

- "Circadian hormone control in a human-on-a-chip". Oct 2017
Cyr, K.J., Avaldi, O.M., Wikswo, J.P.

Presentations

- American Society for Artificial Internal Organs** 2020
"Outcomes Of Extracorporeal Membrane Oxygenation In Multi-Organ Transplantation"
- Heart Rhythm Society Annual Conference Presentation** 2020
"3 Dimensional Mapping of Ventricular Tachycardia in an Ex-Vivo Langendorff Perfused Human Heart"
- Heart Rhythm Society Annual Conference** 2019
"A Novel Patient-Specific Device for Atrial Fibrillation Mapping, Pacing, and Ablation"
- Biomedical Engineering Society Annual Conference | Outstanding Graduate Student Poster Award** 2017
"A Straightforward Low-Cost Test for Sickle Cell Disease"

Awards

- Grand Prize Stanford Medical Student Research Symposium 2019
Looking to the Future Award from the Society for Thoracic Surgery 2019
Finalist in the Business Plan Pitch Competition for the Orthopedic Research Society 2019
Helene and Marjorie Boring Trust iHeart Research award from the Stanford Cardiovascular Institute 2019