

Stanford



Jon Hochstein

- Resident in Cardiothoracic Surgery - Thoracic Surgery
- Affiliate, Department Funds

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

I'm a Cardiothoracic Surgery resident at Stanford Health Care. I also completed an intern year in Pediatrics resident at Boston Children's Hospital before transitioning to cardiothoracic surgery. I received my MD from Harvard Medical School in the Health Sciences and Technology program joint with MIT. I trained as a biomedical engineering at the Johns Hopkins University with a focus in instrumentation.

I've interests in medical devices spanning from assistive robotics, surgical devices, to point of care devices. I have extensive experience working in the electronics and coding aspect of device development.

My long term goal is to become a congenital cardiovascular surgeon and improve the field of transplantation (partial and whole), congenital cardiac surgery techniques, and congenital mechanical circulatory support. This vocation comes from my personal experience receiving a heart transplant in 1999.

CLINICAL FOCUS

- Cardiothoracic Surgery
- Residency

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- B.S., Johns Hopkins University , Biomedical Engineering, Instrumentation (2017)
- M.D., Harvard Medical School, MIT: Health Sciences and Technology Program (2022)

Research & Scholarship

CURRENT CLINICAL INTERESTS

- Congenital Cardiac Surgery
- Cardiothoracic Surgery
- Transplantation

- Mechanical Circulatory Support Devices

I am currently a resident in Stanford's integrated cardiothoracic surgery residency.

As a child heart transplant recipient, I am passionate about the pediatric cardiac population. I aim to help children with cardiac illness return to normalcy and live a fulfilled life pursuing their dreams. I plan to do this through training in pediatric cardiac surgery after this residency, and research in the field, including partial heart transplantation, surgical techniques, mechanical circulatory support devices, and transplantation immunology (tolerance induction, optimized immunosuppression regimen, rejection monitoring techniques, and understanding immunology).

Publications

PUBLICATIONS

- **Long-Distance Heart Transplantation With Ex Vivo Preservation Systems in a Pediatric Center: An Early Case Series** *Pediatric Transplantation*

Choi, P. S., Pong, S., Hochstein, J., Ruaengsri, C., Shibata, M., Sharir, A., Nasirov, T., Dykes, J., Hollander, S. A., Rosenthal, D. N., Martin, E., Ma, M. R.

2025

- **A Pediatric Knee Exoskeleton With Real-Time Adaptive Control for Overground Walking in Ambulatory Individuals With Cerebral Palsy** *FRONTIERS IN ROBOTICS AND AI*

Chen, J., Hochstein, J., Kim, C., Tucker, L., Hammel, L. E., Damiano, D. L., Bulea, T. C.

2021; 8: 702137

- **An organosynthetic soft robotic respiratory simulator** *APL BIOENGINEERING*

Horvath, M. A., Hu, L., Mueller, T., Hochstein, J., Rosalia, L., Hibbert, K. A., Hardin, C. C., Roche, E. T.

2020; 4 (2): 026108

- **Design Advancements toward a Wearable Pediatric Robotic Knee Exoskeleton for Overground Gait Rehabilitation**

Chen, J., Hochstein, J., Kim, C., Damiano, D., Bulea, T., IEEE

IEEE.2018: 37-42