Hao Chuan (Jordan) Lei

http://jordanlei.wixsite.com/portfolio
2320 NW Pinnacle Dr., Portland, OR 97229 503-516-5516 jordanlei.work@gmail.com

Education	**UNIVERSITY OF PENNSYLVANIA,** Philadelphia PA — Class of 2020 Majors: Finance, Wharton School of Business Computer Science, School of Engineering and Applied Sciences **WESTVIEW HIGH SCHOOL,** Portland OR — Weighted GPA: 4.7 — Class of 2016 Class Rank: 1st of 603, Valedictorian National Merit Scholar, Presidential Scholar Semifinalist
Research & Work Experience	**Intern, Carnegie Mellon University** — June - August 2015 Supervisor: Professor Pei Zhang, Ph.D. Conducted and performed research on the use of footstep-induced vibrations on occupant monitoring and detection. Performed Fourier Transform and Cross Correlation Analysis using MATLAB. Helped write 2 papers (publication pending) and created a mounting model to be patented (pending). **Intern, OHSU, Pediatric Cardiology** — June - August 2013 and June - August 2014 Supervisor: Dr. David J. Sahn, M.D. Studied effect of rotation on global strain. Collected data using Toshiba Transducer; analyzed the data using UltraExtend 4-D echocardiography package; performed statistical analysis on the data. Presented findings at ACC 2015 poster session. The scientific findings were published at ACC 2015. **Intern, Oregon State Senate** — March 2015 Supervisor: Senator Elizabeth Steiner-Hayward M.D. Job shadowed Senator Steiner-Hayward. Wrote a bill for recognition of Spc. John Alexander Pelham. https://olis.leg.state.or.us/liz/2015R1/Downloads/MeasureDocument/SCR7/Enrolled
Projects	**Java Game Project** — December 2016 Created game using Java. Project is based off agar.io game format, involves single player interacting with enemy cells. [link]
Publications	[1] D. Sahn (Professor), **H. Lei**, P. Mathur, K. Hastie, G. Farland, M. Ashraf, C. Streiff, L. Tam, M. Zhu, "Effect of Rotation on Myocardial Strain Determination Using Real-Time Three-Dimensional Echocardiography", *American College of Cardiology 64th Annual Scientific Session & Expo (ACC 2015). Journal of American College of Cardiology.* http://content.onlinejacc.org/article.aspx?articleid=2199069 [2] D. Sahn (Professor), P. Mathur, **H. Lei**, K. Hastie, G. Farland, M. Ashraf, C. Streiff, M. Zhu, "Using 4D Echocardiography Imaging to Evaluate the Effect of Stroke Volume on Myocardial Strain", ACC 2015. http://content.onlinejacc.org/article.aspx?articleid=2199070 [3] D. Sahn (Professor), J.Anderson, C.Streiff, L.Tam, H. Tam, **H. Lei**, M. Ashraf, M. Zhu, "Three-Dimensional Echocardiographic Evaluation of Ventricular Septal Circumferential Strain in the Presence of Interventricular Dyssynchrony", ACC 2015. http://content.onlinejacc.org/article.aspx?articleid=2198521 [4] Shijia Pan, Susu Xu, **Hao Chuan Lei**, Hae Young Noh, Pei Zhang (Professor), "HiFiV: High Fidelity Footstep-Induced Structural Vibration Sensing System for Indoor Pedestrian Monitoring", submitted to ACM/IEEE 2016 International Conference on Information Processing in Sensor Networks. [5] Shijia Pan, Mostafa Mirshekar, **Hao Chuan Lei**, Hae Young Noh, Pei Zhang (Professor), "OTIS: An Occupant Traffic Information-Acquisition System through Structural Vibration", submitted to 2016 SPIE: The International Society for Optics and Photonics.
Patents	[1] HiFiV Mounting Design, pending
Skills	CS Languages: Java, OCaml, MATLAB