Jordan Lei

www.jordanlei.com

2320 NW Pinnacle Dr., Portland, OR 97229 503-516-5516 jordanlei.work@gmail.com

Education

UNIVERSITY OF PENNSYLVANIA, Philadelphia PA GPA: 4.0 Class of 2020
Jerome Fisher Dual Degree Program in Management and Technology
Majors: Computer Science, School of Engineering and Applied Sciences
Finance, Wharton School of Business

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 Toshi1ba 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.

Publications

[1] S. Pan, S. Xu, **H. Lei**, H. Y. Noh, P. 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.

[2] S. Pan, M. Mirshekar, **H. Lei**, H. Y. Noh, P. Zhang (Professor), "OTIS: An Occupant Traffic Information-Acquisition System through Structural Vibration", submitted to 2016 SPIE: The International Society for Optics and Photonics.

[3] 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

[4] 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

[5] 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

Patents

[1] HiFiV Mounting Design, pending

Skills

Computer Languages: Java, OCaml, MATLAB