

# Jordan Lei

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## 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

**Intern, Carnegie Mellon University**

June - August 2015

## & Work

Supervisor: Professor Pei Zhang, Ph.D.

## Experience

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.

## 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 64<sup>th</sup> 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