Jace D. Robinson   Resume

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Summary

Graduate researcher seeking data science internship to grow professionally while contributing to impactful projects.

Education

Wright State University	Dayton, OH
M.S. in Computer Science (GPA: 4.0)	Expected December 2017
B.S. in Mathematics and **B.S.** in Computer Science (GPA: 3.98)	May 2016

Experience

Graduate Research Assistant   August 2016-Present
Department of Computer Science and Engineering, Wright State University

- Creating a novel random graph model for dynamic networks built on stochastic block model and state-space model with applied problem of anomaly detection on macro movement in massive geospaces (thesis project with advisor Dr. Derek Doran)
- Extensive literature reviews and self-teaching of technical topics of Bayesian statistics, Kalman Filters, and random network models
- Assisted advisor in writing grant proposal based on thesis project for Bloomberg Data Science Grant

Federal Contractor, Oak Ridge Institute for Science and Education   May 2015-August 2016
Air Force Institute of Technology, Wright Patterson Air Force Base

- Developed original parallel iterative closest point algorithm using k-d trees and Delaunay triangulation on GPU to align two point clouds in real-time resulting in two publications (C, C++, CUDA)
- Algorithmic and programming improvements to Gauss-Newton nonlinear optimization algorithm applied on noisy line-of-sight sensor measurements resulting in a publication (MATLAB)
- Additional contributions to projects of modeling web traffic using Markov Chains (MATLAB) and simulating radiation patterns of antennas in CST and SATCOM software
- Highly experienced presenter due to monthly hour-long presentations to sponsors

Graduate and Senior Undergraduate Class Projects   January 2016-Present

- Detected and presented significant differences in features between public and private universities through classification problem on U.S. College Scorecard dataset using Bayesian logistic regression (R)
- Developed software to data mine Twitter, identify dangerous incidents by natural language processing, cluster using geolocations, and visualize results (Java, R, Senior Project)
- Data mined Twitter and created visualizations of popular political candidates and news stories surrounding the 2016 presidential primary election (Python, Tableau, HTML)

Publications

1. **Robinson J.**, et al. Parallelized Iterative Closest Point for Autonomous Aerial Refueling. ISVC 2016.
2. Burchett L., **Robinson J.**, et al. Automated aerial refueling: Parallelized 3d iterative closest point IEEE NAECON 2016.
3. Levy D., Roos J., **Robinson J.**, et al. Non Linear Optimization Applied to Angle-of-Arrival Satellite Based Geo-location for Biased and Time-Drifting Sensors. International Archives of the Photogrammetry, Remote Sensing & Spatial Information Sciences 2016.

Awards and Honors

- High School Valedictorian Class of 2012
- Valedictorian/Salutatorian Full Tuition Scholarship (Undergraduate)