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## Curriculum Vitae

### JEFFREY A. CALEY

Oregon State University  
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Corvallis, Oregon 97331

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## Education

### **Oregon State University: Corvallis, OR, 2014-June 2019**

PhD - Robotics - Collaborative Robotics and Intelligent Systems (CoRIS) Institute  
Thesis Topic: Deep Learning for Robotic Exploration  
Adviser: Geoff Hollinger

### **Portland State University: Portland, OR, 2010-2013**

Masters of Science, Electrical and Computer Engineering  
Thesis Topic: A Survey of Systems for Predicting Stock Market Movements,  
Combining Market Indicators and Machine Learning Classifiers  
Adviser: Richard Tymerski

### **Pacific Lutheran University: Tacoma, WA, 2003-2007**

Bachelor of Science, Computer Engineering  
Adviser: Tosh Kakar

## Research and Industry Experience

### **Oregon State University**

**2014-2019**

Robotic Decision Making Laboratory - Research Assistant  
Researcher in the Robotic Decision Making Laboratory under Dr. Geoff Hollinger. Exploring autonomous decision making in underwater robotics using deep learning.

### **Pacific Lutheran University**

**2013-2014**

Visiting Instructor of Computer Science and Engineering  
Created and delivered dynamic and engaging lectures and activities to further students knowledge in the engineering field.

### **Cocollage**

**2010 - 2013**

Chief Operations Officer, Co-Founder  
Duties included recruiting development team, managing hardware distribution, Financial estimates, budget, interdisciplinary coordination of requirements and development, project management.

<b>Boeing</b>	<b>2008-2013</b>
Programmer Analyst 1	2008-2009
Programmer Analyst 2	2009-2012
Programmer Analyst 3	2012-2013
Sys Design & Integ Spec 3	2013-2013
<b>Microsoft</b>	<b>2007</b>
Software Test Engineer	
<b>Cyber Camps</b>	<b>2006</b>
Camp Director - Fort Lewis Division	

## Teaching Experience

### Instructor 2013 - 2014

Pacific Lutheran CSCE131: Introduction to Engineering  
 Pacific Lutheran CSCE331: Electrical Circuits  
 Pacific Lutheran CSCE345: Microelectronics

### Teaching Assistant 2010

Portland State ECE510: Computational Finance - 2013  
 Pacific Lutheran CSCE144: Introduction to Computer Science - 2006  
 Oregon State ROB534: Sequential Decision Making in Robotics - 2019

## Conference and Journal Papers

Caley, Jeffrey A., Lawrance, Nicholas R.J., and Geoffrey A. Hollinger. "Environment Prediction from Sparse Samples for Robotic Information Gathering" International Conference on Robot Learning (CoRL19), Submitted 2019

Caley, Jeffrey A., Lawrance, Nicholas R.J., and Geoffrey A. Hollinger. "Deep Learning of Structured Environments for Robot Search" Journal of Autonomous Robots, Jan 2019

Caley, Jeffrey A., Lawrance, Nicholas R.J., and Geoffrey A. Hollinger. "Deep Networks with Confidence Bounds for Robotic Information Gathering" in Proc. Robotics: Science and Systems Conf. Workshop on New Frontiers for Deep Learning in Robotics (RSS17), Boston, MA, July, 2017.

Caley, Jeffrey A., Lawrance, Nicholas R.J., and Geoffrey A. Hollinger. "Deep Learning of Structured Environments for Robot Search" In Proc. International Conference on Intelligent Robots and Systems (IROS), 2016.

Caley, Jeffrey A., and Geoffrey A. Hollinger. "Data-driven comparison of spatio-temporal monitoring techniques." In Proc. OCEANS 2015-MTS/IEEE Washington. IEEE, 2015.

## **Service**

Associated Students of Oregon State University House of Representative 2018-2019

Oregon State robotics tour guide 2015-current

Coalition of Graduate Employees Union Steward 2018-current

PLU Industry Advisory Board Member 2008-Current

Co-founded Deep Learning reading group OSU 2017-current

Faculty Evaluation Committee 2018

## **Outreach**

Washington Aerospace Scholars Program 2012-2014

PLU Capstone mentor 2017-2018

PLU High School Programming Contest judge 2016-2018

## **Invited Talks**

"Deep Learning of Structured Environments for Robot Search" Robotics Seminar at Oregon State University, Corvallis, OR, November 2016

"Probabilistic Robotics: Why Grad School and Robots are Awesome" Tech Talk at Pacific Lutheran University, Parkland, WA, September 2017