# Travis W. Peters

Dartmouth College Department of Computer Science

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## Education

**Ph.D., Computer Science**                                            *September 2013 - June 2018 (expected)*
*Dartmouth College*, Hanover, NH

**B.S., Mathematics & Computer Science**                            *September 2008 - December 2012*
*Western Washington University (WWU)*, Bellingham, WA

**Associate in Arts (Running Start)**                                    *January 2007 - June 2008*
*Lower Columbia College (LCC)*, Longview, WA

## Relevant Work Experience

**Graduate Teaching Assistant**, *Dartmouth College, Hanover, NH*          *September 2013 - Present*
**DevOps Contractor**, *Attachmate, Bellingham, WA*                      *January 2013 - August 2013*

- Design and build a VM template management infrastructure using Opscode Chef and VMware's vCloud Director to maintain (patch & update) a variety of systems (development to be done primarily in Ruby).
- Work with team members to define and build components for the Attachmate support website.
- Define and build reporting automation to improve analytics dashboard.
- Create Ruby, Bash, and Batch scripts to automate routine tasks.
- Document processes, infrastructure/components, configurations and systems as needed.

**Software Engineer Intern**, *Attachmate, Bellingham, WA*              *August 2012 - December 2012*

- Generalized the solution for the Sentinel Extensions for Luminet solution to support logging to various Security Information & Event Management (SIEM) systems.
- Designed a customizable XML configuration file, wrote the related StAX parser, and developed various implementations of generic data structures to support the generic logging solution for Luminet.
- Substantial focus on unit testing & automated testing methods.
- Co-authored and Delivered a presentation/demonstration of project results to the Luminet Product team.

**Computer Science Teaching Assistant**, *WWU, Bellingham, WA*              *September 2012 - Present*

- Proctored two labs for Computer Science 140 (Programming Fundamentals in C++)
- Helped students understand fundamental concepts behind the C++ programming language, elementary data structures, basic building and compilation on UNIX systems, and simple sorting/searing algorithms.
- Regularly held office hours & graded laboratory assignments.

**iOS Developer & Intern Team Lead**, *Emergency Reporting, Bellingham, WA*   *January 2012 - June 2012*

- Developed requirements document and design for Emergency Reporting mobile application.
- Led team of four interns to implement compatible mobile application on iOS and Android platforms.
- Implemented features such as: secure communication across network and encryption/decryption of data (meets Department of Defense Standards), local and cloud database access and storage, and GPS related functionality for way-finding including integration with Google Maps.

**Vice President for Business & Operations**, *Associated Students of WWU,*        *June 2011 - June 2012*

- Charged with overseeing the internal operations of the Associated Students of Western Washington University (ASWWU) programs, services, and the facilities in which they operate.
- Directly managed six other student managers of departments with 1-20 employees.
- Facilitated organizational budgeting process, assessment process as well as hiring process.
- Specifically responsible for development of fiscal year 2012 operating & non-operating budget (approximately $3.1 million total).

**Private Math Tutor**, *Self-employed*                                    *September 2008 - Present*
- Privately tutored more than 10 students in Mathematics while at Western Washington University.
- Demonstrated tutoring proficiency in algebra, geometry, pre-calculus, business calculus, single and multi-variable calculus, linear algebra, differential equations, and probability & statistics.

**Marketing & Technical Associate**, *Caso Inc., San Antonio TX*          *June 2010 - January 2011*
- Collaborated with the marketing team to implement search engine optimization of company website.
- Advised a team of leaders from various departments to implement a trial of a new organizational management system intended for data storage of products, project information/status & client records.

**Teaching Assistant**, *Family House Academy, Kelso, WA*                            *Summer 2009*
- Taught and tested students, ranging from 7-15, in Math, Reading, Writing, and Physical Education.
- Designed lesson plans and evaluation metrics to gauge student progress.

## Selected Publications

Travis Peters, Chip Jackson & Lucas Bourne. "**Computing Along the Big Long River**,"
*UMAP Journal for Undergraduate Mathematics & Research 33.3 Fall 2012 Edition -*
*The 2012 MCM / ICM Contest Edition*

## Relevant Graduate Courses

Machine Learning                                        Introduction to Bioinformatics
Computer Vision

## Relevant Undergraduate Courses

Single Variable Calculus I, II, & III                  Analysis of Algorithms I & II
Multivariable Calculus I & II                          Computer Organization I & II
Limits & Infinite Series                               Database Systems
Systems of Differential Equations                      Web Scripting
Linear Algebra I & II                                  Software Project Analysis & Requirements
Introduction to Proofs via Number Theory               Software Project Design
Proofs in Elementary Analysis                          Software Implementation
Introduction to Abstract Algebra                       Numerical Computation & Analysis
Mathematical Modeling                                  Object Oriented Programming in C++
Probability & Statistics                               Formal Languages & Automata
Statistical Methods                                    Unix Software Development
Introduction to Complex Variables                      Operating Systems
Historical Perspectives of Mathematics                 Principles of Concurrent Programming
Programming & Linear Data Structures                   Computer Networks
Discrete Structures & Functional Programming           Cyber Defense Seminar
Data Structures

## Technical Skills

***Programming Languages:*** Python, Matlab, Ruby, Java, C++, Ada, C, Objective-C, PHP, Mathematica, HTML, CSS, SQL, Scheme, Prolog, Haskell, KPL, NASM Assembly Language

***Source Control:*** Git, Perforce

***Operating Systems:*** Mac OS X, Linux, UNIX, Windows

***Industry Software/Systems:*** VMware's vCloud Director, Opscode Chef

## Leadership Activities

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| **Graduate Student Council Rep.**, Dartmouth College Computer Science | *September 2013 - present* |
| **Lead Teacher & RK Coordinator**, Redeemer Kids at Redeemer Church | *November 2011 - June 2013* |
| **Chair**, AS Management Council & AS Facilities & Services Council | *June 2011 - June 2012* |
| **Vice-Chair**, AS Board of Directors & AS Budget Committee | *June 2011 - June 2012* |
| **Member**, Academic Honesty Board | *June 2011 - June 2012* |
| **Big Brother**, Big Brothers Big Sisters of Whatcom County | *September 2010 - September 2011* |

## Awards & Honors

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| **Dartmouth Fellowship**, Dartmouth College | *2013 - 2014* |
| **Oscar Edwin Olson Scholarship**, Western Washington University | *2012* |
| **Outstanding Winner, Frank Giordano Award**, Mathematical Contest in Modeling | *2012* |

*The Mathematical Contest in Modeling challenges students to clarify, analyze, and propose solutions to open-ended problems. The contest included over 3,600 teams from 17 countries around the world. Only 10 teams are selected as Outstanding Winners of the contest.*

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| **Kaiser Borsari Scholarship**, Western Washington University | *2011 - 2012* |
| **Giusti Scholarship**, Western Washington University | *2011 - 2012* |
| **4-year member of Junior Varsity Cross Country**, Western Washington University | *2008 - 2011* |
| **4-year member of Varsity Track & Field**, Western Washington University | *2008 - 2012* |