Jonathan V. Eldridge

CONTACT INFORMATION	*email*	jonathan@jveldridge.com
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EDUCATION

Brown University, Providence, RI

Master of Science   **September 2013 – December 2014 (expected)**
- Computer Science

Bachelor of Arts   **September 2007 – May 2011**
- Computer Science and Science & Society
- GPA— Cumulative: 3.8; CS Concentration: 3.8

RESEARCH EXPERIENCE

Raphael Lab, Brown University, Providence, RI   **June 2013 – present**

I've been working on improvements to HotNet2, a new version of the HotNet algorithm for finding significantly altered subnetworks in a large gene interaction network.

Raphael Lab, Brown University, Providence, RI   **September 2010 – May 2011**

Worked on HotNet, an algorithm for finding significantly altered subnetworks in a large gene interaction network. Re-implemented program to allow arbitrary biological data as input, prepared the program for release as an open-source tool for the bioinformatics community, and used program for experiments with data on gene expression, functional significance scores, and RNA binding protein targets.

DeGrado Lab, University of Pennsylvania, Philadelphia, PA   **June – August 2009**

Performed computational work writing Perl scripts to analyze alpha-helical structures of transmembrane proteins. Also assisted with experimental research into the activation of the $\alpha_{IIB}\beta_3$ integrin by computed helical anti-membrane protein (CHAMP) peptides.

PUBLICATIONS

M.D.M. Leiserson, **J.V. Eldridge**, S.Ramachandran, B.J. Raphael. Network Analysis of GWAS Data. *Current Opinion in Genetics & Development* (In Press).

WORK EXPERIENCE

Microsoft Corporation, Redmond, WA

Program Manager, Windows Developer Experience   **September 2012 – May 2013**
Worked on the Runtime Experience team on features for Windows 8.1 to improve the reliability of the WinRT platform and to allow developers of Windows Store applications to prefetch web content for their apps.

Program Manager, Windows Live Engineering Platform   **July 2011 – September 2012**
All-up Program Management owner for development of the Windows Live service status site, status.live.com. Worked with team of 3 - 5 developers and 3 - 5 testers to rebuild the site from the ground up, including improving messaging quality, isolating infrastructure to ensure the status site is available when other Live services experience outages, and redesigning the site UX. Also worked on the Windows Live signout experience and served as team Business Intelligence / Customer Intelligence champ.

Amazon.com, Inc., Seattle, WA

Software Development Engineering Intern, Matching Team   **May – August 2010**
Designed, implemented, and tested a REST service to dynamically serve attribute lists used in processing product submissions from external merchants. Also designed, implemented, and tested a web application to provide an interface for non-technical users within Amazon to view, modify, and audit changes to the attribute lists.

Department of Computer Science, Brown University, Providence, RI

Head Teaching Assistant & Undergraduate Teaching Assistant   **January 2009 – May 2011**
- HTA for CS 22: Introduction to Discrete Structures and Probability—*Spring 2011*
  Covers discrete mathematics essential to computer science, including logic, set theory, graph theory, combinatorics, and probability. Responsible for working with professor and 1 other HTA to revise course material and assignments, managing staff of 10 UTAs, and performing UTA responsibilities as below.
- UTA for CS 31: Introduction to Computer Systems—*Fall 2010*
- HTA for CS 4: Introduction to Scientific Computing and Problem-Solving—*Spring 2010*
- UTA for CS 15: Intro. to Object-Oriented Programming and Computer Science—*Fall 2009*
- UTA for CS 4: Introduction to Scientific Computing and Problem-Solving—*Spring 2009*

UTA responsibilities include helping write, revise, and grade student assignments; holding weekly hours for student questions; and running weekly labs.

ACADEMIC AWARDS

University Keystone Project, Brown University, 2010 – 2011
One of 10 seniors completing theses or senior projects selected to participate in weekly workshops, lectures, and discussions on research communication.

Undergraduate Teaching and Research Award, Brown University, Summer 2010 (Declined)
Awarded funding for project "Incorporating Functional Significance of Mutations into Genomic Network Analysis."

Undergraduate Teaching and Research Award, Brown University, Summer 2008
With another undergraduate student, designed and created a website with help resources for students in introductory calculus classes.

LEADERSHIP & VOLUNTEER EXPERIENCE

Admissions Office, Brown University, Providence, RI

Science Tour Coordinator & Science Tour Guide   **November 2008 – May 2010**
Responsible for recruiting, selecting, and training guides, updating the script, and coordinating with departmental chairs and undergraduate groups.

Office of the Dean of the College, Brown University, Providence, RI

Meiklejohn Peer Advisor   **August 2009 – May 2010**
Peer academic advisor for incoming freshman students. Responsible for assisting students with the transition from high school to college, form choosing courses to utilizing university resources.

ADDITIONAL SKILLS

Language Skills:
Intermediate German

OTHER INTERESTS

History and philosophy of science; orchestral and chamber music