

CONTACT INFORMATION	Computer Science Department Tufts University 161 College Avenue Medford, MA 02155	857.206.1330 <a href="mailto:karl@cs.tufts.edu">karl@cs.tufts.edu</a> Tufts: <a href="https://www.eecs.tufts.edu/~karl/">https://www.eecs.tufts.edu/~karl/</a> Github: <a href="#">cronburg</a> Citizenship: United States
DEGREES	2015 M.S. in Computer Science, Tufts University 2013 B.S. in Physics & Computer Science, Bucknell University	
RESEARCH INTERESTS	Debugging, systems verification, memory management	
LANGUAGES	Python: Primarily used for scripting in recent years (grad school). Used for astronomical data analysis in undergrad (numpy, scipy, matplotlib, pylab, etc.).  C: Used heavily in research and coursework.  Haskell: Used heavily in research and coursework.  Java: Used moderately in research and coursework; more knowledgeable about the language itself and JVM implementations than its applications.  L <sup>A</sup> T <sub>E</sub> X: Conference papers, presentations, classwork.  Limited exposure to: Bash, Ruby, C++, ML, Smalltalk, Lisp, $\mu$ scheme, Visual Basic, HTML, CSS, MySQL, PHP, Javascript.	
PROJECTS	Master's Thesis 2015: <a href="#">Debugging Memory Managers with Fine-Grained Memory Permissions</a>  Tufts Polyhack 2014: <a href="#">Shadow Memory</a>  Automatic Printf-Debugging in C  <a href="#">Using Probabilistic Programming Languages to Model Game Heuristics</a>  <a href="#">DeckBuild: A Declarative Domain-Specific Language for Card Game Design</a>  <a href="#">Visual Geolocation Based Black and White Listing</a>  <a href="#">Dotfiles &amp; Scripts</a>	
TEACHING EXPERIENCE	Teaching assistant (Tufts): Operating Systems, Networks, Internet-Scale Distributed Systems Lab teaching assistant (Bucknell): Computer Architecture, Programming Languages, Intro to CS, Intro to Physics I & II Grader (Bucknell): Quantum Mechanics, Electronics, Intro to Physics I & II	
OPERATING SYSTEMS	Sept. 2015 - Present: Arch Linux (x86-64 machines, raspberry pi, pogo plug) Fall 2010 - Oct. 2015: Ubuntu / Debian (x86 machines, raspberry pi) 2005 - 2012: Windows	

REFERENCES

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Relation: Advisor (2013 - Present)

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