

# Christopher W. Fletcher

---

CONTACT *E-mail:* [cwfletch@illinois.edu](mailto:cwfletch@illinois.edu) *Website:* <http://cwfletcher.net> *Last updated:* August, 2018

AFFILIATION University of Illinois at Urbana-Champaign  
Computer Science Department

ADDRESS Siebel Center for Computer Science  
201 N. Goodwin Ave, Urbana, IL 61801

EDUCATION **Massachusetts Institute of Technology** **June 2016**  
Ph.D., Electrical Engineering and Computer Science  
Thesis: “Oblivious RAM: From Theory to Practice” (**Winner of the George M. Sprowls Award for outstanding Ph.D. thesis in CS at MIT**)  
Advisor: Sriniv Devadas

**Massachusetts Institute of Technology** **May 2013**  
S.M., Electrical Engineering and Computer Science  
Thesis: “Ascend: An Architecture for Performing Secure Computation on Encrypted Data”  
Advisor: Sriniv Devadas

**The University of California, Berkeley** **May 2010**  
B.S., Electrical Engineering and Computer Science  
Advisor: John Wawrzynek

**Viewpoint School, Calabasas** **June 2006**  
{Elementary, High} School Diplomas

PAPERS/ETC. Please see <http://cwfletcher.net/Pages/Research.php> for a complete list of published papers, theses, talks, posters, press and funding.

AWARDS AND DISTINCTIONS George M. Sprowls Award for outstanding Ph.D. thesis in CS at MIT **2016**  
ACSC’13 Best Poster Presentation Award, Second Place **2013**  
CCS’13 Best Student Paper Award **2013**  
Ascend processor named one of ten “world changing ideas” by Scientific American **2013**  
National Defense Science and Engineering Graduate Fellowship **Funding years: 2012-2015**  
National Science Foundation Graduate Research Fellowship **Funding years: 2011**  
ICS’10 Best Student Paper Award **2010**  
UC Berkeley, graduated with *High Honors* (GPA: 3.91/4) **2010**  
Golden Key (member) **Inducted 2008**  
Rose Hills Science and Engineering Scholarship **2007-2008**  
Tau Beta Pi, UC Berkeley CA Alpha Chapter (member) **Inducted 2007**  
Eta Kappa Nu (invited) **2007**  
National Society of Collegiate Scholars **2006**  
UC Berkeley Edward Frank Kraft Scholarship **2006**  
VSSA Award (Community Service Distinction) **2006**  
Cum Laude Society, Honor Society (member) **Inducted 2006**  
CORE, Community Service Honor Society (member) **Inducted 2005**

POSITIONS 1. Assistant Professor **Fall 2017 - Present**  
Affiliation: *University of Illinois at Urbana-Champaign; Computer Science Department*

2. Research Post-Doc Fall 2016 - Fall 2017  
Affiliation: *Nvidia Corporation; Nvidia Research; Architecture Research Group*  
Advisor(s): Joel Emer, Steve Keckler
3. Research Assistant Fall 2010 - Spring 2016  
Affiliation: *MIT; CSAIL; Computation Structures Group*  
Advisor(s): Srinivasa Devadas
4. Undergraduate Researcher Spring 2008 - Spring 2010  
Affiliation: *U.C. Berkeley; BWRC, ParLab; RAMP, Berkeley Reconfigurable Group*  
Advisor(s): John Wawrzynek, Garry Nolan, Greg Gibeling, Narges Asadi
5. Software Engineering Intern Summer 2008  
*Oracle Corporation*; Project: JDeveloper-JIRA Connector

SERVICE

**Program Committees:** ICCD'16, ASPLOS'17, HOST'17, MICRO'17, CCS'17, DAC'18, HASP'18, HPCA'19 (industrial track), CHES'19  
**External Review Committees:** Asia CCS'17, ISCA'17, HPCA'19  
**Organizing Committees:** MICRO'17  
**Session Chair:** MICRO'17  
**NSF Panels:** Spring'18  
**Misc:** Reviewer for TACO, IEEE MICRO, CAL

TEACHING

**CS61A:** Structure and Interpretation of Computer Programs, U.C. Berkeley  
**CS150:** Components and Design Techniques for Digital Systems, U.C. Berkeley  
**6.S092:** Introduction to Software Engineering in Java (IAP), M.I.T.  
**6.172:** Performance Engineering of Software Systems, M.I.T.  
**CS598clf:** Secure Processor Design, UIUC  
**CS433:** Computer Systems Organization, UIUC

1. Instructor (Student Approval Rating: 4.4/5) Spring 2018  
*CS433*; course website: <http://cwfletcher.net/433sp18.html>
2. Instructor (Student Approval Rating: 4.8/5 - **Rated excellent by students**) Fall 2017  
*CS598clf*; course website: <http://cwfletcher.net/598clf.html>
3. Teaching Assistant (Student Approval Rating: 6.7/7) Fall 2013  
*6.172*; under: Charles Leiserson and Saman Amarasinghe
4. Instructor January 2012  
*6.S092*; with: Anirudh Sivaraman and Kasia Hayden
5. Teaching Assistant (Student Approval Rating: 5/5) Spring 2010  
*CS150*; under: John Wawrzynek
6. Teaching Assistant (Student Approval Rating: 4.7/5) Spring 2009  
*CS150*; under: John Wawrzynek
7. Head Teaching Assistant (Student Approval Rating: 4.8/5) Fall 2008  
*CS150*; under: Kris Pister
8. Grader Fall 2007  
*CS61A*; under: Brian Harvey
9. Lab Assistant Spring 2007  
*CS61A*; under: Brian Harvey

VOLUNTEER

1. "MITPOSSE" Industry mentor **2016**  
*MIT class 6.172*
2. Corporate Liaison Committee Chair **2006 - 2008**  
*The Engineers' Joint Council*
3. Mentor, Media Literacy Program Director **2005 - 2007**  
*The Zeitgeist Community Learning Center*
4. School Representative, Organizer **2005 - 2006**  
*The ALS Association - Greater Los Angeles Chapter*