

Wei Dai

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EDUCATION	UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CSE) Ph.D student, advised by Prof. Mihir Bellare.	<i>Sept. 2016–Present</i>
	UNIVERSITY OF CALIFORNIA, SANTA BARBARA (UCSB) COLLEGE OF ENGINEERING M.S. Computer Science, advised by Prof. Stefano Tessaro.	<i>Aug. 2012–Jun. 2016</i> <i>Jun. 2016</i>
	COLLEGE OF CREATIVE STUDIES (CCS) B.S. Computer Science & B.S. Mathematics Cumulative GPA: 3.91	<i>Dec. 2015</i>
RESEARCH INTERESTS	Broadly in cryptography and theoretical computer science.	
AWARDS	Powell Fellowship, UCSD CSE	<i>2016/17–2018/19</i>
	Yardi Systems Scholarship, College of Engineering	<i>2014–2015</i>
	Summer Undergraduate Research Fellowship (SURF), CCS	<i>Summer 2014</i>
RESEARCH AFFILIATIONS	Currently advised by Prof. Mihir Bellare.	<i>Sept. 2016–Present</i>
	Crypto group at UCSB, advised by Prof. Stefano Tessaro.	<i>Oct. 2015–Jun. 2016</i>
	Koç Lab, with Prof. Çetin Koç & Prof. Ömer Eğecioğlu	<i>2014–2016</i>
THESES	Master Thesis: <i>Statistical Methods in Cryptography</i> - Application of Rényi divergence in cryptographic applications. - Tighter bound for the Swap-or-Not cipher. - Alternative non-adaptive to adaptive blockcipher composition theorem. - Proposal of lossy deterministic encryption.	<i>Sept. 2014</i>
	Senior Thesis: <i>Randomness Extractors — An Exposition</i> - Surveys literature on randomness extractors. - Two-source extractors from universal hash functions.	<i>Oct. 2015</i>
SELECT POSITIONS & PROJECTS	Taching Assitant - Automata and Formal Languages (UCSB CS138)	<i>Spring 2016</i>
	Grader - Advanced Linear Algebra (UCSB Math CS 120) - Parallel and Scientific Programming (UCSB CS 140) - Introduction to Cryptography (UCSB CS 178)	<i>Winter 2014</i> <i>Fall 2015</i> <i>Winter 2016</i>
	Course scheduling system for Sacramento Country Day School - Implemented heuristic search algorithms for an NP-hard problem.	<i>2012–14</i>
	Fasd. http://github.com/clvv/fasd - Shell script that helps with directory navigation and file access	<i>2011–Present</i>

- Over 2000 GitHub “stars”

SKILLS

Programming and software tools

- Fluency in: C, C++, Javascript, Python, Unix Shell, \LaTeX , git.
- Have worked with: Scala, Ruby, R, parallel libraries (MPI, OpenMP, Intel TBB).
- Familiarity with machine learning: deep learning, Caffe, word2vec.

Fluency in English and Chinese.

**EXTRA-
CURRICULAR**

Staff member at UCSB Excursion Club

2013–2016

- Leading indoor, outdoor rock climbing and canyoneering trips.
- Teaching basic climbing techniques and rigging for climbing.