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# Phillip Rogaway

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<b>Current interest</b>	Grade K-12 math teaching, with an emphasis on creative problem solving and connecting math with the humanities	
<b>Last position</b>	Professor, Department of Computer Science, University of California, Davis. Emeritus since 2024.07.01	1994–2024
<b>Research</b>	Cryptography — ethics and technology — privacy — theory of computation	
<b>Education</b>	<b>Massachusetts Institute of Technology</b> Ph.D. in Electrical Engineering and Computer Science, 1991	1987–1991
	<b>University of Wisconsin, Madison</b> Graduate student, Department of Mathematics, on leave from MIT	1986–1987
	<b>University of California, Berkeley</b> B.A. in Computer Science, 1985	1980–1984
<b>Visiting positions</b>	École Normale Supérieure (ENS), France (2015) ETH Zürich, Switzerland (2014) Isaac Newton Institute, Cambridge, UK (2012) Chiang Mai University, Thailand (1999–2005) Chulalongkorn University, Bangkok, Thailand (2003) Dartmouth College, USA (1990–1991)	
<b>Stats</b>	Number of citations to my work: more than 45,000 h-index: 83 Ranking, in the world, among scholars in: cryptography: #16    ethics and technology: #1    privacy: #8	<i>Stats and rankings by <a href="#">Google Scholar</a>          maximal <math>h</math> s.t. <math>h</math> most cited papers have <math>\geq h</math> citations each</i>
<b>Awards for research</b>	▷ <b>Levchin Prize</b> (2016). “For groundbreaking practice-oriented research that has had an exceptional impact on real-world cryptography.” ▷ <b>PET Award</b> (2015). For the most important paper on privacy enhancing technology in a calendar year (paper from CRYPTO 2015). ▷ <b>IACR Fellow</b> (2012). “For fundamental contributions to the theory and practice of cryptography and for educational leadership in cryptography.” ▷ <b>ACM Paris Kanellakis Theory and Practice Award</b> (2009). “[For the] development of the field of practice-oriented provable-security and its widespread impact on the theory and practice of cryptography and security.” ▷ <b>RSA Award for Mathematics</b> (2003). “[For developing] the primary paradigm for reasoning about the properties of cryptographic methods today.” ▷ <b>ACM CCS Test of Time Award</b> (2011). For for paper from CCS 2001.	
<b>Awards for teaching</b>	▷ <b>ASUCD Excellence in Teaching Award Finalist</b> (2015). Campus-wide award given to one professor from ~2,000. ▷ <b>ASUCD Excellence in Teaching Award Finalist</b> (2014). Campus-wide award given to one professor from ~2,000. ▷ <b>UCD College of Engineering Outstanding Teaching Award</b> (2010). College-wide award given to one professor from ~225.	

<b>Subjects taught</b>	Algorithms · cryptography · data structures · discrete math (combinatorics, graph theory, logic, number theory, and probability) · ethics and technology · science fiction films · theory of computation. Also, privately, standard K-12 math subjects and math competition problems.
<b>K-12 outreach</b>	<ul style="list-style-type: none"> <li>▷ Substitute teacher for math classes (Jesuit High School, 2025–present)</li> <li>▷ Private math tutoring, middle school students (2018–2024)</li> <li>▷ Private math tutoring, high school students (2020–present)</li> <li>▷ COSMOS summer program on security (grades 8–12) (2000)</li> <li>▷ International Mathematical Olympiad (IMO) training (Chiang Mai, 2000, in Thai)</li> <li>▷ Guest teaching in math classes (California and Thailand, 2013–2024)</li> </ul>
<b>Publications</b>	About 135 research publications: <a href="#">DBLP:Rogaway</a> About 15 U.S. patents: <a href="#">Patents:Rogaway</a>
<b>Lectures</b>	About 160 talks, in 32 countries. About 20 of these keynotes, and 28 invited talks at conferences.
<b>Grants</b>	PI on grants and gifts totalling more than \$3 million. Mostly from the NSF. No military funding.
<b>Standards</b>	Approximately 25 cryptographic standards based on my work. Schemes standardized by ANSI, IEEE, IETF, ISO, and NIST.
<b>Leadership roles</b>	<ul style="list-style-type: none"> <li>▷ Chair, Campus Committee on International Studies and Exchanges (2009–2010)</li> <li>▷ Chair, Department’s Undergraduate Affairs Committee (2008–2018)</li> <li>▷ Chair, Department’s Committee of Graduate Advisors (2010–2016)</li> <li>▷ Chair, Department’s Faculty Search Committee (2005–06)</li> <li>▷ Chair, IACR Fellows Committee (2015) (member, 2012–2014)</li> <li>▷ Program Chair, Crypto 2011</li> <li>▷ IACR Board of Directors, 2016, 2017, 2018 (elected position)</li> <li>▷ Editorial Board, <i>Journal of Cryptology</i>, 2009–2017</li> <li>▷ Editorial Board, <i>Information and Computation</i>, 2005–2010</li> <li>▷ PETs Award Selection Committee, 2016</li> <li>▷ Program Committee member, various conferences, 20 times</li> <li>▷ Organizer, Department’s Distinguished Lecture Series (2007–08)</li> </ul>
<b>Advising</b>	<ul style="list-style-type: none"> <li>▷ PhD advisor to 9 Ph.D. students, most of whom became professors.</li> <li>▷ Advised hundreds of undergrads (chaired departmental undergrad committee for years).</li> <li>▷ Advised hundreds of grad students (chaired departmental grad advising committee for years).</li> </ul>
<b>DEI</b>	Experience dealing with students with: autism spectrum · depression · learning disabilities · limited English. Personal experiences with prosopagnosia.
<b>Misc</b>	<ul style="list-style-type: none"> <li>▷ Three years as a security architect, IBM (1991–1994).</li> <li>▷ Many years doing private consulting in cryptography.</li> <li>▷ Lived or worked in more than 70 different countries.</li> <li>▷ Held appointment at Chiang Mai University, Thailand, for about a decade.</li> <li>▷ Can speak Thai. Could once speak Persian and Spanish.</li> <li>▷ Rock climbing, alpine climbing, backpacking.</li> </ul>

**Teaching evaluations** Median instructor-quality ratings of of 10/10 (old system) and 5/5 (new system) for  $\sim 70\%$  of all courses taught (possibly the highest evaluations in the department)  
▷ [All evaluations 2001–2024](#)  
▷ [ECS 127: Cryptography. Winter 2024](#)  
*A mathematical course typical of my “technical” teaching*  
▷ [ECS 188: Ethics in an Age of Technology. Spring 2023.](#)  
*The class I have focused on in recent years. More STS than moral philosophy*  
▷ [ECS 189L: Topics in Computer Science: \*Black Mirror\*. Spring 2024.](#)  
*Novel experimental class*

**Available online** [Teaching statement](#)  
[Full CV](#) ( $\sim 30$  pages)

**References** *The following individuals can speak to my teaching, not just my research.*

**Prof. Mihir Bellare** *Closest collaborator for 30 years*  
University of California, San Diego, USA  
mihir@eng.ucsd.edu [Personal webpage](#)

**Prof. Dipak Ghosal** *Professor and Chair in my home department*  
University of California, Davis, USA  
dghosal@ucdavis.edu [Personal webpage](#)

**Prof. Norm Matloff** *Senior professor in my home department*  
University of California, Davis, USA  
nsmatloff@ucdavis.edu [Personal webpage](#)

**Prof. Chanathip Namprempre** *Colleague with whom I discuss teaching*  
Currently: Penumbra Security  
Formerly: Visiting Professor at Reed College, USA  
Formerly: Professor at Thammasat University, Thailand  
cnamprem@gmail.com [DBLP page](#)