

Phillip Rogaway

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Current interests	Teaching math, theory of computation, cryptography, ethics. Ways to develop creative problem solving skills. Teaching that connects STEM and the humanities. Ethics and technology.	
Last position	Professor, Department of Computer Science, University of California, Davis. Emeritus since 2024.07.01.	1994–2024
Current positions	Math mentor, National Math Stars, part-time. Substitute teacher, math classes, Jesuit High School, occasional.	9/2025 on 3/2025–present
Visiting positions	École Normale Supérieure (ENS), France. ETH Zürich, Switzerland. Isaac Newton Institute, Cambridge, UK. Chiang Mai University, Thailand. Chulalongkorn University, Bangkok, Thailand. Dartmouth College, USA.	2015 2014 2012 1999–2005 2003 1990–1991
Education	Massachusetts Institute of Technology Ph.D. in Electrical Engineering and Computer Science, 1991. University of Wisconsin, Madison. Graduate student, Department of Mathematics, on leave from MIT. University of California, Berkeley B.A. in Computer Science, 1985.	1987–1991 1986–1987 1980–1984
Research	Cryptography — ethics and technology — privacy — theory of computation	
Stats	Number of publications: 135 Number of patents: 15 Citations: 45,424 h-index: 83 (<i>Smallest h s.t. your h most cited papers each have $\geq h$ citations</i>) Worldwide ranking among scholars in: cryptography: #16 ethics and technology: #1 privacy: #8	DBLP Google patents Google Scholar same same
Research awards	▷ Levchin Prize (2016). “For groundbreaking practice-oriented research that has had an exceptional impact on real-world cryptography.” ▷ PET Award (2015). For the most important paper on privacy enhancing technology in a calendar year (paper from CRYPTO 2015). ▷ IACR Fellow (2012). “For fundamental contributions to the theory and practice of cryptography and for educational leadership in cryptography.” ▷ ACM Paris Kanellakis Theory and Practice Award (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.” ▷ RSA Award for Mathematics (2003). “[For developing] the primary paradigm for reasoning about the properties of cryptographic methods today.” ▷ ACM CCS Test of Time Award (2011). For for paper from CCS 2001.	

Teaching awards	<p>▷ ASUCD Excellence in Teaching Award Finalist (2015). Campus-wide award given to one professor from $\sim 2,000$.</p> <p>▷ ASUCD Excellence in Teaching Award Finalist (2014). Campus-wide award given to one professor from $\sim 2,000$.</p> <p>▷ UCD College of Engineering Outstanding Teaching Award (2010). College-wide award given to one professor from ~ 225.</p>
Subjects taught	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.
K-12 outreach	<p>▷ Private math tutoring, middle school students (2018–2024)</p> <p>▷ Private math tutoring, high school students (2020–present)</p> <p>▷ COSMOS summer program on security (grades 8–12) (2000)</p> <p>▷ International Mathematical Olympiad (IMO) training (Chiang Mai, 2000, in Thai)</p> <p>▷ Guest teaching in math classes (California and Thailand, 2013–2024)</p>
Lectures	<p>About 160 talks, in 32 countries.</p> <p>About 20 of these keynotes, and 28 invited talks at conferences.</p>
Grants	<p>PI on grants and gifts totalling more than \$3 million. Mostly from the NSF.</p> <p>No DoD funding throughout my career.</p>
Standards	<p>Approximately 25 cryptographic standards based on my work.</p> <p>Schemes standardized by ANSI, IEEE, IETF, ISO, and NIST.</p>
Leadership roles	<p>▷ Chair, Campus Committee on International Studies and Exchanges (2009–2010)</p> <p>▷ Chair, Department’s Undergraduate Affairs Committee (2008–2018)</p> <p>▷ Chair, Department’s Committee of Graduate Advisors (2010–2016)</p> <p>▷ Chair, Department’s Faculty Search Committee (2005–06)</p> <p>▷ Chair, IACR Fellows Committee (2015) (member, 2012–2014)</p> <p>▷ Program Chair, Crypto 2011</p> <p>▷ IACR Board of Directors, 2016, 2017, 2018 (elected position)</p> <p>▷ Editorial Board, <i>Journal of Cryptology</i>, 2009–2017</p> <p>▷ Editorial Board, <i>Information and Computation</i>, 2005–2010</p> <p>▷ PETs Award Selection Committee, 2016</p> <p>▷ Program Committee member, various conferences, 20 times</p> <p>▷ Organizer, Department’s Distinguished Lecture Series (2007–08)</p>
Advising	<p>▷ PhD advisor to 10 Ph.D. students, most of whom became professors.</p> <p>▷ Advised hundreds of undergrads (chaired departmental undergrad committee for years).</p> <p>▷ Advised hundreds of grad students (chaired departmental grad advising committee for years).</p>
DEI	Experience dealing with students with: autism spectrum · depression · learning disabilities · limited English. Personal experiences with prosopagnosia.

Misc	<ul style="list-style-type: none"> ▷ Three years as a security architect, IBM (1991–1994). ▷ Many years doing private consulting in cryptography. ▷ Lived or worked in more than 70 different countries. ▷ Maintained an appointment at Chiang Mai University, Thailand, for about a decade. ▷ Can speak Thai. (Could once speak Persian and Spanish, but now seems gone.) ▷ Some experience with rock climbing, alpine climbing, backpacking.
Teaching evaluations	<p>Median instructor-quality ratings of: 10/10 (old system, 2001–2013) and 5/5 (new system, 2014–2024) for 70% of all courses taught.</p> <p>▷ All evaluations (2001–2024)</p> <p>Most recent classes:</p> <ul style="list-style-type: none"> ▷ ECS 127: Cryptography. Winter 2024. <i>A mathematical course typical of my technical teaching</i> ▷ ECS 188: Ethics in an Age of Technology. Spring 2023. <i>The class I have focused on in recent years. More STS than moral philosophy</i> ▷ ECS 189L: Topics in Computer Science: <i>Black Mirror</i>. Spring 2024. <i>Novel experimental class</i>
See also	<p>Teaching statement Full CV (~30 pages)</p>
References	<p><i>The following individuals can speak to my teaching, not just my research.</i></p> <p>Prof. Mihir Bellare <i>Closest collaborator for 30 years</i> University of California, San Diego, USA mihir@eng.ucsd.edu Personal webpage</p> <p>Prof. Dipak Ghosal <i>Professor and Chair in my home department</i> University of California, Davis, USA dghosal@ucdavis.edu Personal webpage</p> <p>Prof. Norm Matloff <i>Senior professor in my home department</i> University of California, Davis, USA nsmatloff@ucdavis.edu Personal webpage</p> <p>Prof. Chanathip Namprempre <i>Colleague with whom I discuss teaching</i> Currently: Penumbra Security Formerly: Visiting Professor at Reed College, USA Formerly: Professor at Thammasat University, Thailand cnamprem@gmail.com DBLP page</p>