

# Stanford

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## Dan Boneh

Cryptography Professor, Professor of Electrical Engineering and Senior Fellow at the Freeman Spogli Institute for International Studies  
Computer Science

### CONTACT INFORMATION

- **Administrator**

Ruth Harris - Administrative Associate

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**Tel** (650) 723-1658

### Bio

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#### BIO

Professor Boneh heads the applied cryptography group and co-direct the computer security lab. Professor Boneh's research focuses on applications of cryptography to computer security. His work includes cryptosystems with novel properties, web security, security for mobile devices, and cryptanalysis. He is the author of over a hundred publications in the field and is a Packard and Alfred P. Sloan fellow. He is a recipient of the 2014 ACM prize and the 2013 Godel prize. In 2011 Dr. Boneh received the Ishii award for industry education innovation. Professor Boneh received his Ph.D from Princeton University and joined Stanford in 1997.

#### ACADEMIC APPOINTMENTS

- Professor, Computer Science
- Professor, Electrical Engineering
- Senior Fellow, Freeman Spogli Institute for International Studies

#### HONORS AND AWARDS

- ACM prize, ACM (2015)
- Simons investigator, Simons foundation (2015)
- Godel prize, ACM (2013)
- IACR fellow, IACR (2013)
- Horizon Award, Computerworld (2006)
- Packard Fellow and Sloan Fellow, Packard (present)

#### PROFESSIONAL EDUCATION

- PhD, Princeton (1996)

#### LINKS

- <http://crypto.stanford.edu/~dabo>: <http://crypto.stanford.edu/~dabo>

## Teaching

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### COURSES

#### 2019-20

- Computer and Network Security: CS 155 (Spr)
- Cryptocurrencies and blockchain technologies: CS 251 (Aut)
- Introduction to Cryptography: CS 255 (Win)

#### 2018-19

- Computer and Network Security: CS 155 (Spr)
- Cryptocurrencies and blockchain technologies: CS 251 (Aut)
- Elements of Quantum Computer Programming: CS 269Q (Spr)
- Introduction to Cryptography: CS 255 (Win)

#### 2017-18

- Computer and Network Security: CS 155 (Spr)
- Cybersecurity: A Legal and Technical Perspective: CS 203 (Spr)
- Cybersecurity: A Legal and Technical Perspective: LAW 4004 (Spr)
- Introduction to Cryptography: CS 255 (Win)
- Machine Learning: CS 229, STATS 229 (Aut)

#### 2016-17

- Bitcoin and Crypto Currencies: CS 251 (Aut)
- Computer and Network Security: CS 155 (Spr)
- Cybersecurity: A Legal and Technical Perspective: CS 203 (Spr)
- Cybersecurity: A Legal and Technical Perspective: LAW 4004 (Spr)
- Introduction to Cryptography: CS 255 (Win)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Charis Charitsis, Michael Fischer, Stephen Ibanez, Camelia Simoiu

#### Postdoctoral Faculty Sponsor

Gregory Falco

#### Doctoral Dissertation Advisor (AC)

Henry Corrigan-Gibbs

#### Orals Evaluator

Henry Corrigan-Gibbs

#### Master's Program Advisor

James Carroll, Benton Case, Ellis Hoag, Ang Li, Robert Neff, Jim Posen, Pooja Shah, Ray Thai, Stanley Xie

#### Doctoral Dissertation Co-Advisor (AC)

Alex Ozdemir, Riad Wahby

## Doctoral (Program)

Sergio Benitez, Benedikt Bünz, Benton Case, Henry Corrigan-Gibbs, Saba Eskandarian, Ben Fisch, Sam Kim, Dima Kogan, Florian Tramer

## Publications

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### PUBLICATIONS

- **A Secure Signature Scheme from Bilinear Maps.**  
Boneh, D., Mironov, I., Shoup, V.
- **Collusion Resistant Broadcast Encryption With Short Ciphertexts and Private Keys.**  
Boneh, D., Gentry, C., Waters, B.
- **A Method for Fast Revocation of Public Key Certificates and Security Capabilities.**  
Boneh, D., Ding, X., Tsudik, G., Wong, M.
- **Hierarchical Identity Based Encryption with Constant Size Ciphertext.**  
Boneh, D., Goh, E., Boyen, X.
- **Protecting Browser State from Web Privacy Attacks.**  
Jackson, C., Bortz, A., Boneh, D., Mitchell, J.
- **Stickler: Defending against Malicious Content Distribution Networks in an Unmodified Browser** *IEEE SECURITY & PRIVACY*  
Levy, A., Corrigan-Gibbs, H., Boneh, D.  
2016; 14 (2): 22-28
- **Computing on Authenticated Data** *JOURNAL OF CRYPTOLOGY*  
Jae Hyun Ahn, J. H., Hohenberger, S., Boneh, D., Camenisch, J., Shelat, A., Waters, B.  
2015; 28 (2): 351-395
- **An Experimental Study of TLS Forward Secrecy Deployments** *IEEE INTERNET COMPUTING*  
Huang, L., Adhikarla, S., Boneh, D., Jackson, C.  
2014; 18 (6): 43-51
- **Neuroscience Meets Cryptography: Crypto Primitives Secure Against Rubber Hose Attacks** *COMMUNICATIONS OF THE ACM*  
Bojinov, H., Sanchez, D., Reber, P., Boneh, D., Lincoln, P.  
2014; 57 (5): 110-118
- **Fully Key-Homomorphic Encryption, Arithmetic Circuit ABE and Compact Garbled Circuits** *33rd Annual International Association for Cryptologic Research Eurocrypt Conference on the Theory and Applications of Cryptographic Techniques*  
Boneh, D., Gentry, C., Gorbunov, S., Halevi, S., Nikolaenko, V., Segev, G., Vaikuntanathan, V., Vinayagamurthy, D.  
SPRINGER-VERLAG BERLIN.2014: 533–556
- **Privacy-Preserving Ridge Regression on Hundreds of Millions of Records** *34th IEEE Symposium on Security and Privacy (SP)*  
Nikolaenko, V., Weinsberg, U., Ioannidis, S., Joye, M., Boneh, D., Taft, N.  
IEEE.2013: 334–348
- **Privacy-Preserving Ridge Regression on Hundreds of Millions of Records.**  
Nikolaenko, V., Weinsberg, U., Ioannidis, S., Joye, M., Boneh, D., Taft, N.  
2013
- **Message-Locked Encryption for Lock-Dependent Messages.**  
Abadi, M., Boneh, D., Mironov, I., Raghunathan, A., Segev, G.  
2013
- **Key Homomorphic PRFs and Their Applications.**  
Boneh, D., Lewi, K., Montgomery, H., Raghunathan, A.  
2013

- **Multiparty Key Exchange, Efficient Traitor Tracing, and More from Indistinguishability Obfuscation.** *Cryptology ePrint Archive: Report*  
Boneh, D., Zhandry, M.  
2013: 642
- **Quantum-Secure Message Authentication Codes.**  
Boneh, D., Zhandry, M.  
2013
- **Function-Private Identity-Based Encryption: Hiding the Function in Functional Encryption.**  
Boneh, D., Raghunathan, A., Segev, G.  
2013
- **Private Database Queries Using Somewhat Homomorphic Encryption.**  
Boneh, D., Gentry, C., Halevi, S., Wang, F., Wu, D.  
2013
- **Ensuring high-quality randomness in cryptographic key generation.**  
Corrigan-Gibbs, H., Mu, W., Boneh, D., Ford, B.  
2013
- **Function-Private Subspace-Membership Encryption and Its Applications.**  
Boneh, D., Raghunathan, A., Segev, G.  
2013
- **OSS: Using Online Scanning Services for Censorship Circumvention.**  
Fifield, D., Nakibly, G., Boneh, D.  
2013
- **Constrained Pseudorandom Functions and Their Applications.**  
Boneh, D., Waters, B.  
2013
- **Privacy-preserving matrix factorization.**  
Nikolaenko, V., Ioannidis, S., Weinsberg, U., Joye, M., Taft, N., Boneh, D.  
2013
- **Secure Signatures and Chosen Ciphertext Security in a Quantum Computing World.**  
Boneh, D., Zhandry, M.  
2013
- **Attribute-Based Encryption for Arithmetic Circuits.** *Cryptology ePrint Archive: Report*  
Boneh, D., Nikolaenko, V., Segev, G.  
2013: 669
- **Functional Encryption: A New Vision for Public-Key Cryptography** *COMMUNICATIONS OF THE ACM*  
Boneh, D., Sahai, A., Waters, B.  
2012; 55 (11): 56-64
- **Privacy and Cybersecurity: The Next 100 Years** *PROCEEDINGS OF THE IEEE*  
Landwehr, C., Boneh, D., Mitchell, J. C., Bellovin, S. M., Landau, S., Lesk, M. E.  
2012; 100: 1659-1673
- **StegoTorus: a camouflage proxy for the Tor anonymity system.**  
Weinberg, Z., Wang, J., Yegneswaran, V., Briesemeister, L., Cheung, S., Wang, F., Boneh, D.  
2012
- **Persistent OSPF Attacks.**  
Nakibly, G., Kirshon, A., Gonikman, D., Boneh, D.  
2012

- **SessionJuggler: Secure Web Login From an Untrusted Terminal Using Session Hijacking.**  
Bursztein, E., Soman, C., Boneh, D., Mitchell, J.  
2012
- **Towards Short-Lived Certificates.**  
Topalovic, E., Saeta, B., Huang, L., S., Jackson, C., Boneh, D.  
2012
- **Computing on Authenticated Data.**  
Ahn, J., H., Boneh, D., Camenisch, J., Hohenberger, S., Shelat, A., Waters, B.  
2012
- **The case for prefetching and prevalidating TLS server certificates.**  
Stark, E., Huang, L., S., Israni, D., Jackson, C., Boneh, D.  
2012
- **Who Killed My Battery: Analyzing Mobile Browser Energy Consumption**  
Thiagarajan, N., Aggarwal, G., Nicoara, A., Boneh, D., Singh, J.  
2012
- **The most dangerous code in the world: validating SSL certificates in non-browser software.**  
Georgiev, M., Iyengar, S., Jana, S., Anubhai, R., Boneh, D., Shmatikov, V.  
2012
- **Evading Censorship with Browser-Based Proxies**  
Fifield, D., Hardison, N., Ellithorpe, J., Stark, E., Boneh, D., Dingedine, R.  
2012
- **Neuroscience Meets Cryptography: Designing Crypto Primitives Secure Against Rubber Hose Attacks**  
Bojinov, H., Sanchez, D., Reber, P., Boneh, D., Lincoln, P.  
2012
- **Targeted malleability: homomorphic encryption for restricted computations.**  
Boneh, D., Segev, G., Waters, B.  
2012
- **Efficient Selective Identity-Based Encryption Without Random Oracles** *JOURNAL OF CRYPTOLOGY*  
Boneh, D., Boyen, X.  
2011; 24 (4): 659-693
- **Finding composite order ordinary elliptic curves using the Cocks-Pinch method** *JOURNAL OF NUMBER THEORY*  
Boneh, D., Rubin, K., Silverberg, A.  
2011; 131 (5): 832-841
- **Random Oracles in a Quantum World** *17th Annual International conference on the Theory and Application of Cryptology and Information Security*  
Boneh, D., Dagdelen, O., Fischlin, M., Lehmann, A., Schaffner, C., Zhandry, M.  
SPRINGER.2011: 41-69
- **Functional encryption: definitions and challenges.**  
Boneh, D., Sahai, A., Waters, B.  
2011
- **Homomorphic Signatures for Polynomial Functions.**  
Boneh, D., Freeman, D.  
2011
- **Location privacy via private proximity testing.**  
Narayanan, A., Thiagarajan, N., Lakhani, M., Hamburg, M., Boneh, D.  
2011

- **Random Oracles in a Quantum World.**  
Boneh, D., Dagdelen, Ö., Fischlin, M., Lehmann, A., Schaffner, C., Zhandry, M.  
2011
- **OpenConflict: preventing real time map hacks in online games.**  
Bursztein, E., Hamburg, M., Lagarenne, J., Boneh, D.  
2011
- **Functional Encryption: Definitions and Challenges** *8th Theory Cryptography Conference*  
Boneh, D., Sahai, A., Waters, B.  
SPRINGER-VERLAG BERLIN.2011: 253–273
- **Homomorphic Signatures for Polynomial Functions** *30th Annual International Conference on the Theory and Applications of Cryptographic Techniques*  
Boneh, D., Freeman, D. M.  
SPRINGER-VERLAG BERLIN.2011: 149–168
- **Linearly Homomorphic Signatures over Binary Fields and New Tools for Lattice-Based Signatures** *14th International Conference on Practice and Theory in Public Key Cryptography (PKC 2011)*  
Boneh, D., Freeman, D. M.  
SPRINGER-VERLAG BERLIN.2011: 1–16
- **OpenConflict: Preventing Real Time Map Hacks in Online Games** *32nd IEEE Symposium on Security and Privacy (SP 2011)*  
Bursztein, E., Hamburg, M., Lagarenne, J., Boneh, D.  
IEEE COMPUTER SOC.2011: 506–520
- **Address Space Randomization for Mobile Devices** *4th ACM Conference on Wireless Network Security*  
Bojinov, H., Boneh, D., Cannings, R., Malchev, I.  
ASSOC COMPUTING MACHINERY.2011: 127–137
- **Reliable Location-Based Services from Radio Navigation Systems** *SENSORS*  
Qiu, D., Boneh, D., Lo, S., Enge, P.  
2010; 10 (12): 11369-11389
- **The Emergence of Cross Channel Scripting** *COMMUNICATIONS OF THE ACM*  
Bojinov, H., Bursztein, E., Boneh, D.  
2010; 53 (8): 105-113
- **Kamouflage: Loss-Resistant Password Management** *15th European Symposium on Research in Computer Security*  
Bojinov, H., Bursztein, E., Boyen, X., Boneh, D.  
SPRINGER-VERLAG BERLIN.2010: 286–302
- **Algebraic pseudorandom functions with improved efficiency from the augmented cascade.**  
Boneh, D., Montgomery, H., Raghunathan, A.  
2010
- **Preventing pollution attacks in multi-source network coding.**  
Agrawal, S., Boneh, D., Boyen, X., Freeman, D.  
2010
- **Kamouflage: loss-resistant password management.**  
Bojinov, H., Bursztein, E., Boyen, X., Boneh, D.  
2010
- **Busting frame busting: a study of clickjacking vulnerabilities at popular sites.**  
Rydstedt, G., Bursztein, E., Boneh, D., Jackson, C.  
2010
- **Privacy preserving targeted advertising.**  
Toubiana, V., Narayanan, A., Boneh, D., Nissenbaum, H., Barocas, S.  
2010

- **The case for ubiquitous transport-level encryption**  
Bittau, A., Hamburg, M., Handley, M., Mazieres, D., Boneh, D.  
2010
- **An analysis of private browsing modes in modern browsers.**  
Aggarwal, G., Bursztein, E., Jackson, C., Boneh, D.  
2010
- **Lattice basis delegation in fixed dimension and shorter ciphertext hierarchical IBE**  
Agrawal, S., Boneh, D., Boyen, X.  
2010
- **Framing attacks on smart phones and dumb routers: tap-jacking and geo-localization attacks.**  
Rydstedt, G., Gourdin, B., Bursztein, E., Boneh, D.  
2010
- **Efficient lattice (H)IBE in the standard model.**  
Agrawal, S., Boneh, D., Boyen, X.  
2010
- **Preventing Pollution Attacks in Multi-source Network Coding** *13th International Conference on Practice and Theory in Public Key Cryptography*  
Agrawal, S., Boneh, D., Boyen, X., Freeman, D. M.  
SPRINGER-VERLAG BERLIN.2010: 161–176
- **Protecting Browsers from DNS Rebinding Attacks** *14th ACM Conference on Computer and Communication Security*  
Jackson, C., Barth, A., Bortz, A., Shao, W., Boneh, D.  
ASSOC COMPUTING MACHINERY.2009
- **Signing a Linear Subspace: Signature Schemes for Network Coding.**  
Boneh, D., Freeman, D., Katz, J., Waters, B.  
2009
- **XCS: cross channel scripting and its impact on web applications.**  
Bojinov, H., Bursztein, E., Boneh, D.  
2009
- **Protecting Browsers from DNS Rebinding Attacks.**  
Jackson, C., Barth, A., Bortz, A., Shao, W., Boneh, D.  
2009, 2007
- **Homomorphic MACs: MAC-Based Integrity for Network Coding.**  
Agrawal, S., Boneh, D.  
2009
- **Fast symmetric cryptography in Javascript.**  
Stark, E., Hamburg, M., Boneh, D.  
2009
- **Robust Location Tag Generation from Noisy Location Data for Security Applications** *2009 International Technical Meeting of the Institute-of-Navigation*  
Qiu, D., Boneh, D., Lo, S., Enge, P.  
INST NAVIGATION.2009: 586–597
- **Physical Pseudo Random Function in Radio Frequency Sources for Security** *2009 International Technical Meeting of the Institute-of-Navigation*  
Qiu, D., De Lorenzo, D., Lo, S., Boneh, D., Enge, P.  
INST NAVIGATION.2009: 84–92
- **Pattern Classification for Geotag Generation** *22nd International Technical Meeting of the Satellite Division of the Institute-of-Navigation (ION GNSS-09)*  
Qiu, D., Lo, S., Enge, P., Boneh, D.  
INST NAVIGATION.2009: 1819–1827

- **Homomorphic MACs: MAC-Based Integrity for Network Coding** *7th International Conference on Applied Cryptography and Network Security*  
Agrawal, S., Boneh, D.  
SPRINGER-VERLAG BERLIN.2009: 292–305
- **Symmetric Cryptography in Javascript** *25th Annual Computer Security Applications Conference*  
Stark, E., Hamburg, M., Boneh, D.  
IEEE COMPUTER SOC.2009: 373–381
- **Signing a Linear Subspace: Signature Schemes for Network Coding** *12th International Conference on Practice and Theory in Public Key Cryptography*  
Boneh, D., Freeman, D., Katz, J., Waters, B.  
SPRINGER-VERLAG BERLIN.2009: 68–87
- **XCS: Cross Channel Scripting and its Impact on Web Applications** *16th ACM Conference on Computer and Communications Security*  
Bojinov, H., Bursztein, E., Boneh, D.  
ASSOC COMPUTING MACHINERY.2009: 420–431
- **Short signatures without random oracles and the SDH assumption in bilinear groups** *JOURNAL OF CRYPTOLOGY*  
Boneh, D., Boyen, X.  
2008; 21 (2): 149-177
- **Overshadow: A virtualization-based approach to retrofitting protection in commodity operating systems** *13th International Conference on Architectural Support for Programming Languages and Operating Systems*  
Chen, X., Garfinkel, T., Lewis, E. C., Subrahmanyam, P., Waldspurger, C. A., Boneh, D., Dvoskin, J., Ports, D. R.  
ASSOC COMPUTING MACHINERY.2008: 2–13
- **Generalized Identity Based and Broadcast Encryption Schemes** *14th International Conference on the Theory and Application of Cryptology and Information Security*  
Boneh, D., Hamburg, M.  
SPRINGER-VERLAG BERLIN.2008: 455–470
- **Generalized Identity Based and Broadcast Encryption Schemes.**  
Boneh, D., Hamburg, M.  
2008
- **On The Impossibility of Basing Identity Based Encryption on Trapdoor Permutations.**  
Boneh, D., Papakonstantinou, A., Rackoff, C., Vahlis, Y., Waters, B.  
2008
- **Overshadow: A Virtualization-Based Approach to Retrofitting Protection in Commodity Operating Systems.**  
Chen, M., Subrahmanyam, P., Waldspurger, C., Lewis, E., C., Garfinkel, T., Boneh, D.  
2008
- **Circular-Secure Encryption from Decision Diffie-Hellman.**  
Boneh, D., Halevi, S., Hamburg, M., Ostrovsky, R.  
2008
- **Traitor Tracing with Constant Size Ciphertext.**  
Boneh, D., Naor, M.  
2008
- **On The Impossibility of Basing Identity Based Encryption on Trapdoor Permutations** *49th Annual Symposium on Foundations-of-Computer-Science*  
Boneh, D., Papakonstantinou, P. A., Rackoff, C., Vahlis, Y., Waters, B.  
IEEE COMPUTER SOC.2008: 283–292
- **Circular-secure encryption from decision Diffie-Hellman** *28th Annual International Cryptology Conference*  
Boneh, D., Halevi, S., Hamburg, M., Ostrovsky, R.  
SPRINGER-VERLAG BERLIN.2008: 108–125
- **Traitor Tracing with Constant Size Ciphertext** *15th ACM Conference on Computer and Communications Security*  
Boneh, D., Naor, M.



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ASSOC COMPUTING MACHINERY.2008: 501–510

- **Public key encryption that allows PIR queries** *27th Annual International Cryptology Conference*  
Boneh, D., Kushilevitz, E., Ostrovsky, R., Skeith, W. E.  
SPRINGER-VERLAG BERLIN.2007: 50–67
- **Public Key Encryption That Allows PIR Queries.**  
Boneh, D., Kushilevitz, E., Ostrovsky, R., Skeith, W.  
2007
- **Transaction Generators: Root Kits for the Web.**  
Jackson, C., Boneh, D., Mitchell, J.  
2007
- **Cryptographic Methods for Storing Ballots on a Voting Machine.**  
Bethencourt, J., Boneh, D., Waters, B.  
2007
- **Covert Channels in Privacy-Preserving Identification Systems.**  
Bailey, D., Boneh, D., Goh, E., Juels, A.  
2007
- **Conjunctive, subset, and range queries on encrypted data.**  
Boneh, D., Waters, B.  
2007
- **Exposing private information by timing web applications.**  
Bortz, A., Boneh, D., Nandy, P.  
2007
- **Space-Efficient Identity Based Encryption Without Pairings.**  
Boneh, D., Gentry, C., Hamburg, M.  
2007
- **Geoencryption using Loran.**  
Qiu, D., Lo, S., Enge, P., Boneh, D.  
2007
- **Private Web Search**  
Saint-Jean, F., Johnson, A., Boneh, D., Feigenbaum, J.  
2007
- **Reducing Shoulder-surfing by Using Gaze-based Password Entry.**  
Kumar, M., Garfinkel, T., Boneh, D., Winograd, T.  
2007
- **Geoencryption Using Loran** *2007 National Technical Meeting of the Institute-of-Navigation*  
Qiu, D., Lo, S., Enge, P., Boneh, D., Peterson, B.  
INST NAVIGATION.2007: 104–115
- **A brief look at pairings based cryptography** *48th Annual IEEE Symposium on Foundations of Computer Science*  
Boneh, D.  
IEEE COMPUTER SOC.2007: 19–26
- **Conjunctive, subset, and range queries on encrypted data** *4th Theory of Cryptography Conference*  
Boneh, D., Waters, B.  
SPRINGER-VERLAG BERLIN.2007: 535–554
- **Private Web Search** *6th ACM Workshop on Privacy in the Electronic Society*  
Saint-Jean, F., Johnson, A., Boneh, D., Feigenbaum, J.

ASSOC COMPUTING MACHINERY.2007: 84–90

- **Protecting Browsers from DNS Rebinding Attacks** *14th ACM Conference on Computer and Communication Security*  
Jackson, C., Barth, A., Bortz, A., Shao, W., Boneh, D.  
ASSOC COMPUTING MACHINERY.2007: 421–431
- **Space-efficient identity based encryption without pairings** *48th Annual IEEE Symposium on Foundations of Computer Science*  
Boneh, D., Gentry, C., Hamburg, M.  
IEEE COMPUTER SOC.2007: 647–657
- **Covert Channels in Privacy-Preserving Identification Systems** *14th ACM Conference on Computer and Communication Security*  
Bailey, D. V., Boneh, D., Goh, E., Juels, A.  
ASSOC COMPUTING MACHINERY.2007: 297–306
- **Chosen-ciphertext security from identity-based encryption** *SIAM JOURNAL ON COMPUTING*  
Boneh, D., Canetti, R., Halevi, S., Katz, J.  
2006; 36 (5): 1301-1328
- **Private encrypted content distribution using private broadcast encryption.**  
Barth, A., Boneh, D., Waters, B.  
2006
- **On the impossibility of efficiently combining collision resistant hash functions.**  
Boneh, D., Boyen, X.  
2006
- **A collusion resistant broadcast, trace and revoke system.**  
Boneh, D., Waters, B.  
2006
- **Chosen Ciphertext Secure Public Key Threshold Encryption Without Random Oracles.**  
Boneh, D., Boyen, X., Halevi, S.  
2006
- **Strongly Unforgeable Signatures Based on Computational Diffie-Hellman.**  
Boneh, D., Shen, E., Waters, B.  
2006
- **SANE: A protection architecture for enterprise networks.**  
Casado, M., Garfinkel, T., Akella, A., Freedman, M., Boneh, D., McKeown, N.  
2006
- **Secure function evaluation with ordered binary decision diagrams.**  
Kruger, L., Jha, S., Goh, E., Boneh, D.  
2006
- **Fully Collusion Resistant Traitor Tracing With Short Ciphertexts and Private Keys.**  
Boneh, D., Sahai, A., Waters, B.  
2006
- **SANE: A protection architecture for enterprise networks** *15th USENIX Security Symposium*  
Casado, M., Garfinkel, T., Akella, A., Freedman, M. J., Boneh, D., McKeown, N., Shenker, S.  
USENIX ASSOC.2006: 137–151
- **Privacy in encrypted content distribution using private broadcast encryption** *10th International Conference on Financial Cryptography and Data Security*  
Barth, A., Boneh, D., Waters, B.  
SPRINGER-VERLAG BERLIN.2006: 52–64
- **Chosen ciphertext secure public key threshold encryption without random oracles** *Cryptographers Track held at the RSA Conference (CT-RSA)*  
Boneh, D., Boyen, X., Halevi, S.

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SPRINGER-VERLAG BERLIN.2006: 226–243

- **Fully collusion resistant traitor tracing with short ciphertexts and private keys** *24th Annual International Conference on Theory and Applications of Cryptographic Techniques*  
Boneh, D., Sahai, A., Waters, B.  
SPRINGER-VERLAG BERLIN.2006: 573–592
- **Strongly unforgeable signatures based on computational Diffie-Hellman** *9th International Conference on Theory and Practice of Public Key Cryptography*  
Boneh, D., Shen, E., Waters, B.  
SPRINGER-VERLAG BERLIN.2006: 229–240
- **On the impossibility of efficiently combining collision resistant hash functions** *26th Annual International Cryptology Conference*  
Boneh, D., Boyen, X.  
SPRINGER-VERLAG BERLIN.2006: 570–583
- **Remote timing attacks are practical** *COMPUTER NETWORKS*  
Brumley, D., Boneh, D.  
2005; 48 (5): 701-716
- **Oblivious signature-based envelope** *22nd ACM Symposium on Principles of Distributed Computing (PODC 03)*  
Li, N. H., Du, W. L., Boneh, D.  
SPRINGER.2005: 293–302
- **Improved efficiency for CCA-secure cryptosystems built using identity-based encryption** *Cryptographers Track held at the RSA Conference (CT-RSA)*  
Boneh, D., Katz, J.  
SPRINGER-VERLAG BERLIN.2005: 87–103
- **Evaluating 2-DNF Formulas on Ciphertexts.**  
Boneh, D., Goh, E., Nissim, K.  
2005
- **Stronger Password Authentication Using Browser Extensions.**  
Ross, B., Jackson, C., Miyake, N., Boneh, D., Mitchell, J.  
2005
- **Improved Efficiency for CCA-Secure Cryptosystems Built Using Identity Based Encryption.**  
Boneh, D., Katz, J.  
2005
- **Collusion resistant broadcast encryption with short ciphertexts and private keys** *25th Annual International Cryptology Conference*  
Boneh, D., Gentry, C., Waters, B.  
SPRINGER-VERLAG BERLIN.2005: 258–275
- **Hierarchical identity based encryption with constant size ciphertext** *24th Annual International Conference on Theory and Applications of Cryptographic Techniques*  
Boneh, D., Boyen, X., Goh, E. J.  
SPRINGER-VERLAG BERLIN.2005: 440–456
- **Evaluating 2-DNF formulas on ciphertexts** *2nd Theory of Cryptography Conference (TCC 2005)*  
Boneh, D., Goh, E. J., Nissim, K.  
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