Dan Boneh
Cryptography Professor and Professor of Electrical Engineering
Computer Science

CONTACT INFORMATION
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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

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
Teaching

COURSES

2018-19

• Computer and Network Security: CS 155 (Spr)
• Cryptocurrencies and blockchain technologies: CS 251 (Aut)
• 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

Master's Program Advisor

Ang Li

Publications

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

• 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., Gentry, C., Halevi, S., Wang, F., Wu, D.
  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*
  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

• 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., Dingledine, 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, O., 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

• **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, 2007

• Protecting Browsers from DNS Rebinding Attacks.
  Jackson, C., Barth, A., Bortz, A., Shao, W., Boneh, D.
  2009

• 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

  Qiu, D., Lo, S., Enge, P., Boneh, D.
  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*  
  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**  
  Boneh, D., Papakonstantinou, P. A., Rackoff, C., Vahlis, Y., Waters, B.  
  IEEE COMPUTER SOC.2008: 283–292

- **Circular-secure encryption from decision Diffie-Hellman**  
  Boneh, D., Halevi, S., Hamburg, M., Ostrovsky, R.  
  SPRINGER-VERLAG BERLIN.2008: 108–125

- **Traitor Tracing with Constant Size Ciphertext**  
  Boneh, D., Naor, M.  
  ASSOC COMPUTING MACHINERY.2008: 501–510

- **Public key encryption that allows PIR queries**  
  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.**  
  Bailley, 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.

- **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.

- **A brief look at pairings based cryptography** 48th Annual IEEE Symposium on Foundations of Computer Science
  Boneh, D.

- **Private Web Search** 6th ACM Workshop on Privacy in the Electronic Society
  Saint-Jean, F., Johnson, A., Boneh, D., Feigenbaum, J.

- **Protecting Browsers from DNS Rebinding Attacks** 14th ACM Conference on Computer and Communication Security
  Jackson, C., Barth, A., Bortz, A., Shao, W., Boneh, D.

- **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.
  SPRINGER-VERLAG BERLIN.2006: 226–243

- Fully collusion resistant traitor tracing with short ciphertexts and private keys 24th Annual International Conference on Theory and Practice of Public Key Cryptography
  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.
- Improved efficiency for CCA-secure cryptosystems built using identity-based encryption  
  Boneh, D., Katz, J.  
  Cryptographers Track held at the RSA Conference (CT-RSA)  
  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  
  Boneh, D., Gentry, C., Waters, B.  
  25th Annual International Cryptology Conference  
  SPRINGER-VERLAG BERLIN.2005: 258–275

- Hierarchical identity based encryption with constant size ciphertext  
  Boneh, D., Boyen, X., Goh, E. J.  
  24th Annual International Conference on Theory and Applications of Cryptographic Techniques  
  SPRINGER-VERLAG BERLIN.2005: 440–456

- Evaluating 2-DNF formulas on ciphertexts  
  Boneh, D., Goh, E. J., Nissim, K.  
  2nd Theory of Cryptography Conference (TCC 2005)  
  SPRINGER-VERLAG BERLIN.2005: 325–341

- Stronger password authentication using browser extensions  
  Boneh, D., Goh, E. J., Nissim, K.  
  14th USENIX Security Symposium  
  USENIX ASSOC.2005: 17–31

- Short signatures from the Weil pairing  
  Boneh, D., Lynn, B., Shacham, H.  
  JOURNAL OF CRYPTOLOGY  
  2004; 17 (4): 297-319

- Short group signatures  
  Boneh, D., Boyen, X., Shacham, H.  
  24th Annual International Cryptology Conference  

- On the Effectiveness of Address-Space Randomization  
  Boneh, D., Page, M., Pfaff, B., Goh, E., Modadugu, N., Boneh, D.  
  2004

- Efficient Selective Identity-Based Encryption Without Random Oracles.  
  Boneh, D., Boyen, X.  
  2004

- Short Group Signatures.  
  Boneh, D., Boyen, X., Shacham, H.  
  2004

- Secure Identity Based Encryption Without Random Oracles.  
  Boneh, D., Boyen, X.  
  2004

- Group Signatures with Verifier-Local Revocation.  
  Boneh, D., Shacham, H.
2004

- **Public key encryption with keyword search.**
  Boneh, D., Crescenzo, G., Di, Ostrovsky, R., Persiano, G.
  2004

- **Short Signatures Without Random Oracles.**
  Boneh, D., Boyen, X.
  2004

- **Public key encryption with keyword search** *23rd Annual Eurocrypt Conference*
  Boneh, D., Di Crescenzo, G., Ostrovsky, R., Persiano, G.
  SPRINGER-VERLAG BERLIN.2004: 506–522

- **Short signatures without random oracles** *23rd Annual Eurocrypt Conference*
  Boneh, D., Boyen, X.
  SPRINGER-VERLAG BERLIN.2004: 56–73

- **Secure identity based encryption without random oracles** *24th Annual International Cryptology Conference*
  Boneh, D., Boyen, X.
  SPRINGER-VERLAG BERLIN.2004: 443–459

- **Efficient selective-ID secure identity-based encryption without random oracles** *23rd Annual Eurocrypt Conference*
  Boneh, D., Boyen, X.
  SPRINGER-VERLAG BERLIN.2004: 223–238

- **Identity-based encryption from the Weil pairing** *SIAM JOURNAL ON COMPUTING*
  Boneh, D., Franklin, M.
  2003; 32 (3): 586-615

- **SiRiUS: Securing Remote Untrusted Storage.**
  Goh, E., Shacham, H., Modadugu, N., Boneh, D.
  2003

- **Remote timing attacks are practical.**
  Boneh, D., Brumley, D.
  2003

- **Oblivious Signature-Based Envelope.**
  Li, N., Du, W., Boneh, D.
  2003

- **A Survey of Two Signature Aggregation Techniques.** *In CryptoBytes*
  Boneh, D., Gentry, C., Lynn, B., Shacham, H.
  2003; 6 (2)

- **Aggregate and Verifiably Encrypted Signatures from Bilinear Maps.**
  Boneh, D., Gentry, C., Shacham, H., Lynn, B.
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