

Ankur Moitra

CONTACT INFORMATION	Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, MA 02139 USA	<i>Cell:</i> (607) 227-6851 <i>Office:</i> 2-472 and 32-G594 <i>E-mail:</i> moitra@mit.edu http://people.csail.mit.edu/moitra/
CITIZENSHIP	USA	
RESEARCH INTERESTS	theoretical computer science, machine learning	
APPOINTMENTS	Massachusetts Institute of Technology, Department of Mathematics <i>Rockwell International Associate Professor</i> , Summer 2017-present <i>Rockwell International Assistant Professor</i> , Summer 2016-Summer 2017 <i>Assistant Professor</i> , Fall 2013-Summer 2016 Computer Science and Artificial Intelligence Lab (CSAIL) <i>Principal Investigator</i> , Fall 2013-present Institute for Advanced Study, School of Mathematics <i>NSF Computing and Innovation Fellow</i> , Fall 2011-Summer 2013 Also: <i>Senior Postdoc</i> at Princeton University, Summer 2012-Summer 2013	
EDUCATION	Massachusetts Institute of Technology, Electrical Engineering and Computer Science Ph.D. in Computer Science, June 2011 Thesis: <i>Vertex Sparsification and Universal Rounding Algorithms</i> Advisor: F. Thomson Leighton Received the George M. Sprowls Thesis Award (best thesis) Massachusetts Institute of Technology, Electrical Engineering and Computer Science S.M. in Computer Science, May 2009 Thesis: <i>A Solution to the Papadimitriou-Ratajczak Conjecture</i> Advisor: F. Thomson Leighton Received the William A. Martin Memorial Thesis Award (best thesis) Cornell University, Electrical and Computer Engineering B.S. <i>Summa Cum Laude</i> , May 2007 Class Rank in School of Engineering: 1 st of 714 Minor in Applied Mathematics	
HONORS AND AWARDS	ONR Young Investigator Award, 2018 David and Lucile Packard Foundation Fellow , 2016 Alfred P. Sloan Research Fellow, 2016 Edmund F. Kelly Research Award, 2015-2018 NSF CAREER Award, 2015 Invited Paper (“Learning Topic Models — Provably and Efficiently”) in Communications of the ACM, Research Highlights, 2015 Google Research Award, 2014 NSF Computing and Innovation Fellow, 2011-2013 George M. Sprowls Thesis Award, 2011	

Invited Paper (“Disentangling Gaussians”) in Communications of the ACM, Research Highlights, 2011
William A. Martin Memorial Thesis Award, 2009
Siebel Scholar, Class of 2009
Fannie and John Hertz Foundation Fellow, 2008-2011
MIT Presidential Fellowship, 2007-2008
Barry M. Goldwater Scholar, 2006-2007

PUBLICATIONS

- S. Arora, R. Ge, Y. Halpern, D. Mimno, A. Moitra, D. Sontag, Y. Wu, M. Zhu. Learning Topic Models — Provably and Efficiently. *Communications of the ACM* April 2018, **Research Highlights**, pages 85–93.
- I. Diakonikolas, G. Kamath, D. Kane, J. Li, A. Moitra, A. Stewart. Robustly Learning a Gaussian: Getting Optimal Error, Efficiently. *Proceedings of the 29th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2018)*, pages 2683–2702.
- L. Hamilton, F. Koehler, A. Moitra. Information Theoretic Properties of Markov Random Fields, and Their Algorithmic Applications. *Advances in Neural Information Processing Systems 30 (NIPS 2017)*, pages 2460–2469.
- A. Perry, A. Wein, A. Bandeira, A. Moitra. Optimality and Suboptimality of PCA for Spiked Random Matrices and Synchronization. *Annals of Statistics*, to appear.
- A. Perry, A. Wein, A. Bandeira, A. Moitra. Message-passing Algorithms for Synchronization Problems over Compact Groups. *Communications on Pure and Applied Mathematics*, to appear.
- J. Urschel, V. Brunel, A. Moitra, P. Rigollet. Learning Determinantal Point Processes with Moments and Cycles. *Proceedings of the 34th International Conference on Machine Learning (ICML 2017)*, pages 3511–3520.
- I. Diakonikolas, G. Kamath, D. Kane, J. Li, A. Moitra, A. Stewart. Being Robust (in High Dimensions) Can Be Practical. *Proceedings of the 34th International Conference on Machine Learning (ICML 2017)*, pages 999–1008.
- V. Brunel, A. Moitra, P. Rigollet, J. Urschel. Rates of Estimation for Determinantal Point Processes. *Proceedings of the 30th Annual Conference on Learning Theory (COLT 2017)*, pages 343–345.
- A. Moitra. Approximate Counting, the Lovasz Local Lemma and Inference in Graphical Models. *Proceedings of the 49th Annual ACM Symposium on Theory of Computing (STOC 2017)*, pages 356–369.
- B. Barak, S. Hopkins, J. Kelner, P. Kothari, A. Moitra, A. Potechin. A Nearly Tight Sum-of-Squares Lower Bound for the Planted Clique Problem. *Proceedings of the 57th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2016)*, pages 428–437. Invited to SIAM Journal on Computing **Special Issue**.
- I. Diakonikolas, G. Kamath, D. Kane, J. Li, A. Moitra, A. Stewart. Robust Estimators in High Dimensions without the Computational Intractability. *Proceedings of the 57th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2016)*, pages 655–664. Invited to SIAM Journal on Computing **Special Issue**.
- S. Arora, R. Ge, F. Koehler, T. Ma, A. Moitra. Provable Algorithms for Inference in Topic Models. *Proceedings of the 33rd International Conference on Machine Learning (ICML 2016)*, pages 2859–2867.

- A. Moitra, W. Perry, A. Wein. How Robust are Thresholds for Community Detection? *Proceedings of the 48th Annual ACM Symposium on Theory of Computing* (STOC 2016), pages 828–841.
- B. Barak, A. Moitra. Noisy Tensor Completion via the Sum-of-Squares Hierarchy. *Proceedings of the 29th Annual Conference on Learning Theory* (COLT 2016), pages 1–29.
- B. Barak, A. Moitra, R. O’Donnell, P. Raghavendra, O. Regev, D. Steurer, L. Trevisan, A. Vijayaraghavan, D. Witmer, J. Wright. Beating the Random Assignment on Constraint Satisfaction Problems of Bounded Degree. *19th International Workshop on Approximation, Randomization, and Combinatorial Optimization* (APPROX 2015), pages 110–123.
- S. Arora, R. Ge, T. Ma, A. Moitra. Simple, Efficient and Neural Algorithms for Sparse Coding. *Proceedings of the 28th Annual Conference on Learning Theory* (COLT 2015), pages 113–149.
- A. Moitra. Super-resolution, Extremal Functions and the Condition Number of Vandermonde Matrices. *Proceedings of the 47th Annual ACM Symposium on Theory of Computing* (STOC 2015), pages 821–830.
- S. Arora, R. Ge, A. Moitra. New Algorithms for Learning Incoherent and Overcomplete Dictionaries. *Proceedings of the 27th Annual Conference on Learning Theory* (COLT 2014), pages 779–806.
- A. Bhaskara, M. Charikar, A. Moitra, A. Vijayaraghavan. Smoothed Analysis of Tensor Decompositions. *Proceedings of the 46th Annual ACM Symposium on Theory of Computing* (STOC 2014), pages 594–603.
- C. Daskalakis, A. De, I. Diakonikolas, A. Moitra, R. Servedio. A Polynomial Time Approximation Scheme for Fault-tolerant Distributed Storage. *Proceedings of the 25th Annual ACM-SIAM Symposium on Discrete Algorithms* (SODA 2014), pages 628–644.
- A. Moitra, M. Saks. A Polynomial Time Algorithm for Lossy Population Recovery. *Proceedings of the 54th Annual IEEE Symposium on Foundations of Computer Science* (FOCS 2013), pages 110–116.
- M. Hardt, A. Moitra. Algorithms and Hardness for Robust Subspace Recovery. *Proceedings of the 26th Annual Conference on Learning Theory* (COLT 2013), pages 354–375.
- S. Arora, R. Ge, Y. Halpern, D. Mimno, A. Moitra, D. Sontag, Y. Wu, M. Zhu. A Practical Algorithm for Topic Modeling with Provable Guarantees. *Proceedings of the 30th International Conference on Machine Learning* (ICML 2013), pages 280–288.
- M. Braverman, A. Moitra. An Information Complexity Approach to Extended Formulations. *Proceedings of the 45th Annual ACM Symposium on Theory of Computing* (STOC 2013), pages 161–170.
- A. Moitra. An Almost Optimal Algorithm for Computing Nonnegative Rank. *SIAM Journal on Computing* 45(1): 156–173, 2016. Preliminary version in *Proceedings of the 24th Annual ACM-SIAM Symposium on Discrete Algorithms* (SODA 2013), pages 1454–1464.

- S. Arora, R. Ge, A. Moitra, S. Sachdeva. Provable ICA with Unknown Gaussian Noise, and Implications for Gaussian Mixtures and Autoencoders. *Algorithmica* **Special Issue** 72(1):215–236, 2015. Preliminary version in *Advances in Neural Information Processing Systems 25* (NIPS 2012), pages 2384–2392.
- S. Arora, R. Ge, A. Moitra. Learning Topic Models – Going Beyond SVD. *Proceedings of the 53rd Annual IEEE Symposium on Foundations of Computer Science* (FOCS 2012), pages 1–10.
- A. T. Kalai, A. Moitra, G. Valiant. Disentangling Gaussians. *Communications of the ACM* February 2012, **Research Highlights**, pages 113–120.
- S. Arora, R. Ge, R. Kannan, A. Moitra. Computing a Nonnegative Matrix Factorization – Provably. *SIAM Journal on Computing* **Special Issue** 45(4): 1582-1611, 2016. Preliminary version in *Proceedings of the 44th Annual ACM Symposium on Theory of Computing* (STOC 2012), pages 145–162.
- N. Alon, A. Moitra, B. Sudakov. Nearly Complete Graphs Decomposable into Large Induced Matchings and Their Applications. *Journal of the European Mathematical Society* 15(5): 1575–1596, 2013. Preliminary version in *Proceedings of the 44th Annual ACM Symposium on Theory of Computing* (STOC 2012), pages 1079–1090.
- R. Gelles, A. Moitra, A. Sahai. Efficient and Explicit Coding for Interactive Communication. *IEEE Transactions on Information Theory* 60(3): 1899–1913, 2014. Preliminary version in *Proceedings of the 52nd Annual IEEE Symposium on Foundations of Computer Science* (FOCS 2011), pages 768–777.
- A. Moitra, R. O’Donnell. Pareto Optimal Solutions for Smoothed Analysts. *SIAM Journal on Computing* **Special Issue** 41(5):1266–1284, 2012. Preliminary version in *Proceedings of the 43rd Annual ACM Symposium on Theory of Computing* (STOC 2011), pages 225–234.
- N. Immorlica, A. Kalai, B. Lucier, A. Moitra, A. Postlewaite, and M. Tennenholtz. Dueling Algorithms. *Proceedings of the 43rd Annual ACM Symposium on Theory of Computing* (STOC 2011), pages 215–224.
- M. Andrews, M.T. Hajiaghayi, H. Karloff, A. Moitra. Capacitated Metric Labeling. *Proceedings of the 22nd Annual ACM-SIAM Symposium on Discrete Algorithms* (SODA 2011), pages 976–995.
- A. Moitra, G. Valiant. Settling the Polynomial Learnability of Mixtures of Gaussians. *Proceedings of the 51st Annual IEEE Symposium on Foundations of Computer Science* (FOCS 2010), pages 93-102.
- M. Charikar, T. Leighton, S. Li, A. Moitra. Vertex Sparsifiers and Abstract Rounding Algorithms. *Proceedings of the 51st Annual IEEE Symposium on Foundations of Computer Science* (FOCS 2010), pages 265-274.
- A.T. Kalai, A. Moitra, G. Valiant. Efficiently Learning Mixtures of Two Gaussians. *Proceedings of the 42nd Annual ACM Symposium on Theory of Computing* (STOC 2010), pages 553-562.
- T. Leighton, A. Moitra. Extensions and Limits to Vertex Sparsification. *Proceedings of the 42nd Annual ACM Symposium on Theory of Computing* (STOC 2010), pages 47-56.
- A. Moitra. Vertex Sparsification and Oblivious Reductions. *SIAM Journal on Computing* **Special Issue** 42(6):2400–2423, 2013. Preliminary version in *Proceedings of the 50th Annual IEEE Symposium on Foundations of Computer Science* (FOCS 2009), pages 3-12.

T. Leighton, A. Moitra. Some Results on Greedy Embeddings in Metric Spaces. *Discrete and Computational Geometry* **Invited** 44(3): 686–705, 2010. Preliminary version in *Proceedings of the 49th Annual IEEE Symposium on Foundations of Computer Science* (FOCS 2008), pages 337-346.

MANUSCRIPTS

S. Chen, A. Moitra. Linear Programming Bounds for Randomly Sampling Colorings. *ArXiv:1804.03156*, 2018.

S. Chen, A. Moitra. Learning Mixtures of Product Distributions via Higher Multilinear Moments. *ArXiv:1803.06521*, 2018.

TALKS

Approximate Counting and the Lovasz Local Lemma

Harvard Probability and Random Matrix Theory, December 2017

Princeton University Theory Lunch, December 2017

Toyota Technological Institute CS Colloquium, October 2017

STOC, June 2017

Institute for Advanced Study CSDM Seminar, March 2017

Robust Statistics, Revisited

Simons Math+X Symposium, January 2018

JASON Fall Meeting, November 2017

DARPA Safe Machine Learning Workshop, October 2017

Yale University Statistics Seminar, October 2017

Packard Fellows Retreat, September 2017

EPFL Summer Research Institute, June 2017

Northeastern Theory Seminar, April 2017

MIT Stochastics and Statistics Seminar, March 2017

Simons Institute, November 2016

Southern California Theory Day, November 2016

Georgia Tech ARC Colloquium, October 2016

How Robust are Reconstruction Threshold for Community Detection?

Northwestern Quarterly Theory Workshop, May 2017

MIT Statistics and Data Science Day, April 2017

Planted Clique, Sum-of-Squares and Pseudo-Calibration

Institute for Mathematics and Applications, May 2016

Simons Institute, May 2016

Beyond Matrix Completion

Princeton PACM Colloquium, March 2016

FSTTCS Plenary Talk, December 2015

Harvard Big Data Conference, August 2015

European Meeting of Statisticians, July 2015

New England Machine Learning Day, May 2015

MIT Stochastics and Statistics Seminar, April 2015

NYU Theory Seminar, April 2015

Harvard Probability and Random Matrix Theory, March 2015

UChicago Theory Seminar, March 2015

Simple, Efficient and Neural Algorithms for Sparse Coding

Simons Institute, March 2015

ITA, February 2015

Workshop on Algorithmic Challenges in Machine Learning (UCSD), January 2015

Symposium on Learning, Algorithms and Complexity (IISc), January 2015

Workshop on Learning Theory (FOCM), December 2014

Super-resolution, Extremal Fctns and the Condition Number of Vandermonde Matrices
 STOC, June 2015
 MSR/MIT Reading Group, November 2014
 Workshop on Sparse Fourier Transform (FOCS), October 2014

Tensor Decompositions and Their Applications
 Learning at Scale (MADALGO), August 2014

New Algorithms for Dictionary Learning
 Learning at Scale (MADALGO) August 2014
 Curves and Surfaces, June 2014
 Mathematical Foundations of Learning Theory, June 2014
 COLT, June 2014
 Workshop on Overcoming Intractability in Learning (STOC), May 2014

Extended Formulations and Information Complexity
 Simons Institute, April 2015
Dagstuhl Tutorial, March 2014

A Polynomial Time Algorithm for Lossy Population Recovery
 Simons Institute, September 2014
 Duke University Algorithms Seminar, August 2014
 ICERM, May 2014
 ITA, February 2014
 FOCS, October 2013
 TCS+ Seminar, September 2013
 Princeton University Discrete Math Seminar, May 2013
 Princeton University Theory Lunch, April 2013

Polynomial Methods in Learning and Statistics
UAI Tutorial, July 2013
Institute for Advanced Study Members Seminar, March 2012

An Information Complexity Approach to Extended Formulations
 MIT TOC Colloquium, September 2013
 STOC, June 2013
NYC Theory Day, May 2013
 Columbia University Discrete Math Seminar, April 2013
ARC Theory Day, April 2013
 Center for Computational Intractability Meeting, December 2012

New Algorithms for Nonnegative Matrix Factorization and Beyond
 Harvard CS Colloquium, October 2014
 Learning at Scale (MADALGO), August 2014
 University of Washington CS Colloquium, November 2014
 University of Texas, Austin CS Colloquium, April 2013
 University of California, San Diego CS Colloquium, April 2013
 Carnegie Mellon University CS/MLD Colloquium, March 2013
 Google Research NYC Theory Seminar, March 2013
 Cornell University CS Colloquium, March 2013
 Princeton University CS/PACM Colloquium, February 2013
 MIT Applied Math Special Seminar, February 2013
 Columbia University IEOR/CS Colloquium, February 2013
 IBM T.J. Watson Theory Seminar, February 2013
 Microsoft Research, Silicon Valley Theory Seminar, February 2013
 Caltech CMS Colloquium, January 2013

Microsoft Research, New England Theory Seminar, January 2013

An Almost Optimal Algorithm for Computing Nonnegative Rank
ISSAC Tutorial, July 2015
SODA, January 2013

Learning Topic Models – Going Beyond SVD
FOCS, October 2012

Computing a Nonnegative Matrix Factorization – Provably
Cornell University Theory Seminar, October 2012
IBM T.J. Watson Theory Lunch, July 2012
Google Research NYC Theory Seminar, June 2012
Carnegie Mellon University Theory Seminar, December 2011
University of Texas, Austin Theory Seminar, November 2011

Finding Structure in Big Data (popular talk)
Institute for Advanced Study Board of Trustees Meeting, May 2012

Nearly Complete Graphs Decomposable into Large Induced Matchings
STOC, May 2012
Princeton University Theory Lunch, April 2012

Vertex Sparsification: An Introduction, Connections and Applications
Workshop Tutorial, June 2015
Part I: Institute for Advanced Study CSDM Seminar, November 8th 2011
Part II: Institute for Advanced Study CSDM Seminar, November 15th 2011

Pareto Optimal Solutions for Smoothed Analysts
Princeton University Discrete Math Seminar, March 2012
Rutgers University Discrete Math Seminar, February 2012
University of California, Berkeley Theory Seminar, September 2011
Workshop on Beyond Worst Case Analysis (Stanford), September 2011
STOC, May 2011

Efficiently Learning Mixtures of Gaussians
International Workshop on Statistical Learning, June 2013
University of California, San Diego Theory Seminar, April 2013
Center for Computational Intractability Meeting, September 2011
Microsoft Research, New England Theory Seminar, January 2011
Institute for Advanced Study CSDM Seminar, January 2011
Microsoft Research, Redmond Theory Lunch, December 2010
Yale University Statistics Seminar, November 2010
Carnegie Mellon University Theory Seminar, September 2010
Microsoft Research, Silicon Valley Theory Seminar, August 2010
IBM T.J. Watson Theory Lunch, May 2010

Capacitated Metric Labeling
SODA, January 2011

Vertex Sparsification and Oblivious Reductions
Columbia University CS Colloquium, February 2012
Columbia University Discrete Math Seminar, November 2011
DIMACS Theory Seminar, October 2011
University of California, Los Angeles CS Colloquium, March 2011
Toyota Technological Institute CS Colloquium, March 2011
Stanford University CS Colloquium, February 2011
University of Southern California CS Colloquium, February 2011

Georgia Institute of Technology ARC Colloquium, January 2011
Microsoft Research, Silicon Valley Theory Seminar, January 2011
MIT Operations Research Seminar, December 2010
University of Washington Theory Seminar, December 2010

Extensions and Limits to Vertex Sparsification

STOC, May 2010

Approximation Algorithms for Multicommodity Type Problems

Carnegie Mellon University Theory Lunch, September 2010
China Theory Week (Tshingua), September 2010
Cornell University Theory Seminar, February 2010
Princeton University Theory Lunch, December 2009
University of California, Berkeley Theory Seminar, November 2009
Stanford Algorithms Seminar, November 2009
MIT Combinatorics Seminar, September 2009
FOCS, October 2009
ATT Research Theory Seminar, May 2009
Bell Labs Theory Seminar, May 2009

Some Results on Greedy Embeddings in Metric Spaces

Microsoft Research, Redmond, March 2009
FOCS, October 2008

SERVICE

Associate Editor: ACM Transactions on Algorithms (TALG)

Program Committees: NIPS 2018 (area chair), COLT 2018, ICALP 2018, STOC 2018, RANDOM 2017, ICML 2016, SODA 2015, FOCS 2014, ICML 2013, APPROX 2013

Journal Reviewer: Journal of the ACM, Proceedings of the National Academy of Sciences, Foundations of Computational Mathematics, SIAM Journal on Computing, Israel Journal of Math, Journal of Machine Learning Research, Mathematical Programming, Machine Learning, Journal of Combinatorial Theory Series B, Mathematics of Operations Research, Computational Complexity, Information and Computation, IEEE Transactions on Information Theory, IEEE Transactions on Computers, SIAM Journal on Matrix Analysis, SIAM Journal on Optimization, ACM Transactions on Algorithms, Algorithmica

Conference Reviewer: FOCS 2018, ITCS 2018, SODA 2018, APPROX 2017, FOCS 2017, COLT 2017, ISIT 2017, STOC 2017, ITCS 2017, SODA 2017, FOCS 2016, IPCO 2016, STOC 2016, SODA 2016, NIPS 2015, ESA 2015, FOCS 2015, COLT 2015, ICALP 2015, STOC 2015, ESA 2014, RANDOM 2014, COLT 2014, STOC 2014, SODA 2014, FOCS 2013, NIPS 2013, COLT 2013, STOC 2013, ICML 2013, STACS 2013, ITCS 2013, SODA 2013, ESA 2012, FOCS 2012, COLT 2012, STOC 2012, SWAT 2012, SODA 2012, ICS 2011, SODA 2011, Special Issue for FOCS 2011, ESA 2010, COLT 2010, STOC 2010, SODA 2010, SPAA 2009, Special Issue for SODA 2008

ADVISING

Sitan Chen (EECS), Linus Hamilton (Math, Hertz Fellow), Frederic Koehler (Math), Jerry Li (EECS, NSF Fellow), Amelia Perry (Math, co-advised with Jon Kelner), Madalina Persu (EECS), Alex Wein (Math, NDSEG Fellow)

THESIS
COMMITTEE

Gautam Kamath (EECS), Cheng Mao (Math), Brian Cleary (CSBi), Adrian Vladu (Math), Ben Yang (Math), Mohammad Bavarian (Math), Hilary Finucane (Math), Hamza Fawzi (EECS), Oren Rippel (Math), Aaron Potechin (Math), Dimiter Ostrev (Math), Mark Lipson (Math), Alan Deckelbaum (Math)

TEACHING

Massachusetts Institute of Technology

Lecturer for 18.200:Principles of Discrete Applied Mathematics Spring 2018
Undergraduate course on discrete math co-taught with Michel Goemans

Lecturer for 18.408:Algorithmic Aspects of Machine Learning Fall 2017
Graduate course on recent progress in machine learning

Lecturer for 6.042/18.062:Mathematics for Computer Science Fall 2016
Undergraduate course on discrete math co-taught with Tom Leighton

Lecturer for 6.854/18.415:Advanced Algorithms Spring 2016
Redesigned core graduate course on algorithm design

Lecturer for 18.200:Principles of Discrete Applied Mathematics Fall 2015
Undergraduate course on discrete math co-taught with Peter Shor

Lecturer for 18.409:Algorithmic Aspects of Machine Learning Spring 2015
Updated graduate course on recent progress in machine learning

Lecturer for 6.042/18.062:Mathematics for Computer Science Fall 2014
Undergraduate course on discrete math co-taught with Tom Leighton

Lecturer for 18.434:Topics in Theoretical Computer Science Spring 2014
Undergraduate seminar on polytopes and optimization

Lecturer for 18.S996:Algorithmic Aspects of Machine Learning Fall 2013
New graduate course on modern algorithmic approaches in machine learning

SUMMER

PROGRAMS

Massachusetts Institute of Technology

Faculty Supervisor for SPUR/RSI Summers 2015, 2016, 2017
Six week intensive math research experience for 40+ students at all levels (high school, undergraduate, graduate) both as advisees and mentors, co-supervised with David Jerison

Project Awards: Out of eleven eligible student projects, one was a finalist and six were semifinalists in the prestigious Siemens Competition

Rutgers University

Lecturer for The Math Behind the Machine Summer 2013
Summer course for high school students, aimed at introducing them to theoretical computer science

REFERENCES

Sanjeev Arora (arora@cs.princeton.edu)

Charles C. Fitzmorris Professor, Princeton University

Robert Kleinberg (rdk@cs.cornell.edu)

Associate Professor, Cornell University

Tom Leighton (ftl@akamai.com)

CEO, Akamai Technologies

Professor, MIT

Avi Wigderson (avi@math.ias.edu)

Herbert H. Maass Professor, Institute for Advanced Study