Emmanuel Candès

Academic Curriculum Vitae

Department of Statistics
390 Jane Stanford Way
Stanford University
Stanford, CA 94305-4020
Phone: 650-723-2620

Department of Mathematics
480 Jane Stanford Way, Bldg. 380
Stanford University
Stanford, CA 94305-2155
Phone: 650-725-6284

Email: candes@stanford.edu
Publications: candes.su.domains/publications
LinkedIn: linkedin.com/in/emmanuel-candes-75082b149

Lab: candes.su.domains
Scholar: scholar.google.com

Selected highlights

Barnum-Simons Chair in Mathematics and Statistics, Stanford University

MacArthur Fellow; Member, National Academy of Sciences; Fellow, American Academy of Arts & Sciences

Recipient of the NSF Alan T. Waterman Medal, Princess of Asturias Award for Technical & Scientific Research, IEEE Jack S. Kilby Signal Processing Medal, and Shaw Prize in Mathematical Sciences

Major prizes include the Birkhoff, Pólya, Lagrange, Kleinman, Wilkinson, and Collatz prizes

Research spans applied mathematics, statistics, information theory, signal processing, imaging science, mathematical optimization, AI, and machine learning

Industry engagement includes research collaborations, consulting, and advisory work across technology, finance, AI, and data science

Founder and former Director of Stanford Data Science and former Chair of the Stanford Department of Statistics

Appointments held

The Barnum-Simons Chair in Mathematics and Statistics
Stanford University, 2012–present

Founder and Director of Stanford Data Science
Stanford University, 2018–2025

Chair of the Department of Statistics
Stanford University, 2016–2018

Professor of Electrical Engineering (by courtesy)
Stanford University, 2010–present

Professor of Mathematics and of Statistics
Stanford University, 2009–present

Member of the Institute for Computational and Mathematical Engineering
Stanford University, 2009–present

Executive Officer for Applied and Computational Mathematics
Caltech (Dept. Chair), 2009

Professeur Invité
Université de Toulouse, 2006

Ronald and Maxine Linde Professor of Applied and Computational Mathematics
Caltech, 2006–2011

Professeur Invité
Université Paris-Sud XI, 2002

Assistant, Associate, Full Professor of Applied and Computational Mathematics
Caltech, 2000–2006

Assistant Professor of Statistics
Stanford University, 1998–2000

Education

Ph.D. in **Statistics**
Stanford University, 1998

M.Sc. in **Applied Mathematics**
University of Paris VI and Paris IX, France, 1994

B.Sc. [Diplome d'Ingénieur]
École Polytechnique, France, 1993

Honors & awards

2026 Shaw Prize in Mathematical Sciences

2026 Frontiers of Science Award, International Congress of Basic Science, China

2025 Graham and Dodd Award for the best paper published in the *Financial Analysts Journal*

2024 Frontiers of Science Award in Mathematics, International Congress of Basic Science, China, for "Phase retrieval via matrix completion" (*declined because I was unable to attend the required in-person award ceremony*)

2023 Best Paper Award in Mathematics, International Congress of Basic Science, China, for "Panning for gold: 'model-X' knockoffs for high-dimensional controlled variable selection" (*declined because no co-authors were able to attend the required in-person award ceremony*)

Breiman Award Lecture, NeurIPS, 2022

Arthur Cohen Award, Rutgers University, 2022

2021 IEEE Jack S. Kilby Signal Processing Medal

Princess of Asturias Award for Technical & Scientific Research, 2020

IEEE Signal Processing Society Best Paper Award, *Signal Processing Magazine*, 2019

Information Theory Society Paper Award, 2019

IEEE Fellow, 2018

American Mathematical Society (AMS) Fellow, 2018

2017 MacArthur Fellowship

Ralph E. Kleinman Prize
Society for Industrial and Applied Mathematics (SIAM), 2017

Society for Industrial and Applied Mathematics (SIAM) Fellow, 2017

Wald Memorial Lecturer, Institute of Mathematical Statistics, 2017

Prix Pierre Simon de Laplace, Société Française de Statistique, 2016

IEEE Signal Processing Society Best Paper Award (shared with Boyd & Zymnis), *Signal Processing Letters*, 2015

Beal-Orchard-Hays Prize
Mathematical Optimization Society (shared with Becker & Grant), 2015

George David Birkhoff Prize
American Mathematical Society and Society for Industrial and Applied Mathematics, 2015

SIAM Outstanding Paper Prize (shared with Eldar, Ströhmer & Voroninski), 2014

Member, National Academy of Sciences, 2014

Fellow of the American Academy of Arts & Sciences, 2014

Invited Plenary Lecture at the International Congress of Mathematicians (ICM 2014), Seoul, 2014

First Recipient of the Prix Jean Kuntzmann, 2014

Dannie Heineman Prize, Academy of Sciences at Göttingen, 2013

Lagrange Prize in Continuous Optimization
Mathematical Optimization Society (MOS) and Society of Industrial and Applied Mathematics (SIAM), 2012

Simons Chair, Math+X, Simons Foundation, 2011

Collatz Prize
International Council for Industrial and Applied Mathematics (ICIAM), 2011

George Pólya Prize
Society of Industrial and Applied Mathematics (SIAM), 2010

Chaire Schlumberger in the mathematical sciences
Institut des Hautes Études Scientifiques (IHES), France (declined), 2008

Information Theory Society Paper Award, 2008

Alan T. Waterman Medal
National Science Foundation, 2006

James H. Wilkinson Prize in Numerical Analysis and Scientific Computing
Society of Industrial and Applied Mathematics (SIAM), 2005

Best Paper Award of the European Association for Signal, Speech and Image Processing, 2003

Department of Energy Young Investigator Award, 2002

Alfred P. Sloan Research Fellow, 2001–2003

Third Popov Prize in Approximation Theory, 2001

Direction des Recherches et Études Techniques (DRET) Fellowship for doctoral research awarded on the basis of final ranking from École Polytechnique, 1993–1997

French National Scholarship awarded on the basis of ranking at the national examination for admission to École Polytechnique, 1990–1993

Honorary lectures

Georges de Rham Lecture, Ecole Polytechnique Fédérale de Lausanne, 2026

Anniversary Lecture, International Seminar on Selective Inference, 2025

Wilks Lecture, Princeton University, 2025

Bernoulli Lecture, 11th World Congress in Probability and Statistics, 2024

Bahadur Lecturer, University of Chicago, 2024

Nie Lecture, Columbia University, 2024

George Zyskind Memorial Lecture, Iowa State University, 2023

Breiman Award Lecture, NeurIPS, 2022

Distinguished Theme Seminar Series, Purdue University, 2022

Arthur Cohen Lecture, Rutgers University, 2022

Challis Lectures, University of Florida, 2022

Tripods Distinguished Colloquium, Texas A&M, 2020

Bernoulli Lecture, École Polytechnique Fédérale de Lausanne, 2020

Milliman Lecturer, University of Washington, 2020

Cray Distinguished Lecture, University of Minnesota, 2020

The Kailath Lecture, Stanford University, 2019

The Feng Kang Distinguished Lecturer, Beijing, China, 2018

Green Family Lectures, University of California at Los Angeles, 2018

Euler Lecture, Mathematics Departments in Berlin and Potsdam, Potsdam, Germany, 2018

Woodroofe Lecturer, University of Michigan, 2018

The 2018 Breakthrough Prize Symposium, Stanford University, 2017

Wald Memorial Lectures, 2017 Joint Statistical Meetings, Baltimore, 2017

Bernoulli Society Presidential Invited Lecture, ISI 61st World Statistics Congress, Marrakech, Morocco, 2017

Abel Lecture, University of Oslo, 2017

Leçons Jacques-Louis Lions 2017, Université Pierre et Marie Curie (Paris VI), Paris, 2017

Laplace Lecture, Société Française de Statistique, Montpellier, 2016

Sobel Lecture, University of California at Santa Barbara, 2016

Oppenheim Lecture, National University of Singapore, 2016

Grande Conférence Publique du CRM, Université de Montréal, 2015

Richard E. Phillips Distinguished Lecture Series, Michigan State University, 2015

Distinguished CAMS Lecture, University of Southern California, 2015

94th Mathematical Colloquium, Charles University, 2015

Public Lecture, Fields Institute, University of Toronto, 2015

Distinguished Lecture Series, University of California at Irvine, 2014

Amick Lectures, University of Chicago, 2014

Columbia University Distinguished Colloquium Series in Interdisciplinary & Applied Mathematics, 2014

Public Lecture, Academy of Sciences at Göttingen, 2013

Simons Institute Open Lecture, UC Berkeley, 2013

Bernoulli Society/European Mathematics Society Lecture, European Meeting of Statisticians, 2013

Simons Lecturer, Massachusetts Institute of Technology, 2013

Distinguished Lecturer, Academia Sinica, Taiwan, 2013

Stelson Lecturer, Georgia Institute of Technology, 2012

Medallion Lecturer, Institute of Mathematical Statistics (IMS), 2012

Distinguished Lecturer, Fields Institute, 2012

Ziwet Lecturer, University of Michigan, 2012

Ron DiPerna Lecturer, University of California at Berkeley, 2012

Erdös Memorial Lecturer, American Mathematical Society, 2011

Class of 27 Lectures, Rensselaer Polytechnic Institute, 2011

London Mathematical Society Lecturer, 2011

Lucien Le Cam Lecture, Journées de Statistique, 2010

Stewardson Lecture, British Mathematics Colloquium & British Applied Mathematics Colloquium, 2010

Distinguished Israel Pollak Lecturer, Technion — Israel Institute of Technology, 2010

Amundson Lecturer, University of Houston, 2009

Courant Lecturer, New York University, 2009

Aziz Lecturer, University of Maryland, 2007

Plenary lecture, International Congress on Industrial & Applied Mathematics (ICIAM 2007), Zürich, 2007

Invited lecture, International Congress of Mathematicians (ICM 2006), Madrid, 2006

Patents

U.S. Patent "A Digital Multiplexing Readout for Sparse Signals on Imaging Arrays", Patent No. US 9,197,805; Nov. 24, 2015

U.S. Patent "Error Correction using Linear Programming", Patent No. US 7,890,842 B2; Feb. 15, 2011

U.S. Patent "Methods for Performing Fast Discrete Curvelet Transforms of Data", Patent No. US 7,840,625 B2; Nov. 23, 2010

U.S. Patent "Digital Ridgelet Transform via Digital Polar Coordinate Transform", Patent No. US 6,766,062 B1; Jul. 20, 2004

Grants & research contracts

LM Arena Research Award: $50,000, 05/2026

Google Research Award: $30,000, 10/2025

Google Research Award: $15,000 of Cloud Computing Resources, 10/2025

NIH: Interpretable machine learning methods for the analysis of Alzheimer's disease genetics (1R01AG08950901A1); $3,834,082, 04/2025–03/2030; Candès (Co-investigator)

ONR: Leveraging Foundational Models for Reliable Discovery and Inference (N00014-24-1-2305); $740,000, 01/04/24–03/31/27; Candès (PI)

NIH: The pursuit of genetic causal mechanisms (Award 1R56HG010812-01A1); $811,611, 01/01/21–12/31/22; Candès (Co-investigator)

NSF: Collaborative Research: Transferable, Hierarchical, Expressive, Optimal, Robust, Interpretable NETworks (THEORINET) (Award 2032014); $350,000, 09/01/20–08/31/25; Candès (PI)

Simons Foundation: Collaborative Research: Transferable, Hierarchical, Expressive, Optimal, Robust, Interpretable NETworks (THEORINET) (Award 814641); $350,000, 09/01/20–08/31/25; Candès (PI)

ONR: Trusted Machine Learning: Statistical Tools for Making the Black Box Effective (N00014-20-1-2157); $674,614; 02/15/20–02/14/23; Candès (PI)

NSF: The Stanford Data Science Collaboratory; $2,000,000; 09/01/19–08/31/22; Candès (PI)

TwoSigma: gift in the amount of $75,000, 03/2019

TwoSigma: gift in the amount of $75,000, 11/2017

NSF: Discovering what matters: informative and reproducible variable selection with applications to genomics (DMS 1712800); $420,000; 09/01/17–08/31/20; Candès (co-PI), Sabatti (co-PI)

TwoSigma: gift in the amount of $75,000, 11/2016

ARO: Semantic Information Pursuit for Multimodal Data Analysis (ARO 2003514594); $975,000; 07/15/17–07/14/23; Candès (co-PI)

ONR: Statistical Tools for Reproducible Selection (N00014-16-1-2712); $450,000; 06/01/16–05/31/19; Candès (PI)

NSF: BIGDATA: Collaborative Research: F: From Data Geometries to Information Networks (IIS-1546206); 01/01/16–12/31/19; Guibas (co-PI), Candès (co-PI)

Simons Foundation: Math+X Chair Activities Award; $325,000 per year for graduate and postdoctoral fellowships, 2015–2018

Broadcom Foundation: gift in the amount of $25,000, 10/2013

NIH: Computational Tools for Next Generation of Cone Beam CT (1R01EB016618); 10/01/13–09/30/17; Xing (PI)

Simons Foundation: Math+X Enabling Grant; $100,000 per year, 01/01/13–12/31/15

Simons Foundation: Math+X Chair Activities Award; $325,000 per year for graduate and postdoctoral fellowships, 2012–2015

Broadcom Foundation: gift in the amount of $25,000, 10/2012

Broadcom Foundation: gift in the amount of $25,000, 02/2012

ONR: Statistical Detection of Structured and Unstructured Anomalous Events (N00014-10-1-0599); $620,000; 03/15/10–03/14/13; Candès (PI)

ONR: Recovery of Large Data Matrices from Partial Information: Theory, Algorithms *&* Applications (N00014-08-1-0749); $65,000; 02/15/10–10/31/10; Candès (PI)

NSF-CCF CIF: Medium: Collaborative Research: Advances in the Theory and Practice of Low-Rank Matrix

Recovery and Modeling (CCF-0963835); $1,200,000; 05/01/10–04/30/14; Candès (co-PI)

NSF-CNS NetSE: Large: A Theory of Network Architecture (CNS-0911041); $2,500,000; 10/01/09–09/30/12; Candès (co-PI)

AFOSR: Information Dynamics as Foundation for Network Management (MURI); total funding is $8,000,000 over five years; 08/09–07/14; Candès (co-PI)

ONR: Recovery of Large Data Matrices from Partial Information: Theory, Algorithms & Applications (N00014-09-1-0469); $150,000; 02/01/09–01/31/10; Candès (PI)

ONR: Methods for the Detection of Anomalous Clusters in Large Networks (N00014-09-1-0258); $300,000; 12/01/08–11/30/11; Candès (PI)

ONR: System Identification from Incomplete Data: Theory, Algorithms and Applications (N00014-08-1-0749); $300,000; 03/01/08–12/31/10; Candès (PI)

DARPA: Analog-to-Information (A-to-I) Receiver Development Program; $2,000,000; 05/01/08–04/30/11; Candès (PI) (total funding for the larger team is approximately $10,000,000)

NSF-CCF: Waterman Award (CCF-0631558); $500,000, 08/15/06–08/14/09; Candès (PI)

NSF-SCREMS: Scientific Computing Research Environments for the Mathematical Sciences (DMS 0619860); $153,000, 09/01/06–08/31/07; Candès (co-PI)

DARPA: Analog to Information; $280,000; 02/01/06–01/31/07; Candès (co-PI) (total funding for the team is $1,000,000)

NSF-CCF: Signal Recovery from Highly Incomplete Data (CCF-0515362); $300,000, 05/01/05–04/30/08; Candès (PI)

DOE Early Career Award; Geometrical Multiscale Analysis: Applications to Scientific Computing and Partial Differential Equations (DOE DE-FG03-02ER25529); $300,000; 08/15/02–08/14/05; Candès (PI)

NSF-FRG Collaborative Research: A Focused Research Group on Multiscale Geometric Analysis–Theory, Tools, and Applications (DMS-0140540); $1,000,000; 08/15/02–07/31/05; Candès (co-PI), Donoho (co-PI), Huo (co-PI), Jones (co-PI)

NSF-ITR: Multiscale Analysis, Modeling, and Simulation (ACI-0204932); $1,247,000; 10/01/02–09/30/04; Marsden (PI)

Alfred P. Sloan Fellowship: $40,000, 09/01/01–08/30/03

NSF-KDI: Member of the Wavelet Ideal Data Representation Center, 1998–2001

Research supervision & advising

Postdoctoral supervision

Name	Program	Year	Placement
Tijana Zrnic	Statistics and Data Science, Stanford	2023–2025	Faculty, Stanford University
Jinzhou Li	Statistics, Stanford	2023–2025	Faculty, National University of Singapore
Daniel Lejeune	Statistics, Stanford	2023–2024	Senior Scientist, TRSS
Alice Cortinovis	Mathematics, Stanford	2022–2024	Faculty, University of Pisa

Yao Zhang	Statistics and Data Science, Stanford	2022–2025	Faculty, National University of Singapore
Haoyang Liu	Statistics, Stanford	2020–2021	Hudson River Trading
Lihua Lei	Statistics, Stanford	2019–2022	Faculty, Stanford University
Yaniv Romano	Statistics, Stanford	2018–2020	Faculty, Israel Institute of Technology (Technion)
Ju Sun	Mathematics, Stanford	2016–2019	Faculty, University of Minnesota
Asaf Weinstein	Statistics, Stanford	2015–2018	Faculty, Hebrew University, Jerusalem
Mert Pilanci	Statistics, Stanford	2016–2017	Faculty, Stanford University
Yuxin Chen	Statistics, Stanford	2015–2017	Faculty, Wharton School at University of Pennsylvania
Lester Mackey	Statistics, Stanford	2012–2013	Senior Researcher, Microsoft Research New England
Rina Foygel Barber	Statistics, Stanford	2012–2013	Faculty, University of Chicago
Veniamin Morgenshtern	Statistics, Stanford	2012–2016	Citadel
Mark Davenport	Statistics, Stanford	2010–2012	Faculty, Georgia Tech
Ewout van den Berg	Statistics, Stanford	2010–2012	IBM T.J. Watson Research Center
Deanna Needell	Statistics, Stanford	2009–2011	Faculty, UCLA
Jérôme Bobin	Applied and Comp. Math., Caltech	2008–2009	Co-head of CosmoStat lab, CEA Saclay
Benjamin Recht	Center for Math. of Information, Caltech	2006–2009	Faculty, UC Berkeley
Arnaud Durand	Applied and Comp. Math., Caltech	2007–2008	Faculty, Université Paris-Sud
José Costa	Applied and Comp. Math., Caltech	2005–2008	DRW Trading Group
Michael Wakin	Applied and Comp. Math., Caltech	2006–2007	Faculty, Colorado School of Mines
Lexing Ying	Applied and Comp. Math., Caltech	2004–2006	Faculty, Stanford University
Justin Romberg	Applied and Comp. Math., Caltech	2003–2006	Faculty, Georgia Tech

Doctoral advising

Name	**Program**	**Year**	**Placement**
Alexandru Lopotenco	Statistics, Stanford	In progress	
Skyler Wu	Statistics, Stanford	In progress	

Puheng Li	Statistics, Stanford	In progress	
Virginia Ma	Statistics, Stanford	In progress	
Sarah Zhao	Statistics, Stanford	In progress	
Joonhyuk Lee	Statistics, Stanford	In progress	
Ziang Song	Statistics, Stanford	In progress	
Michael Salerno	Statistics, Stanford	In progress	
Yash Nair	Statistics, Stanford	In progress	
Zitong Yang	Statistics, Stanford	2026	Thinking Machines Lab
Asher Spector	Statistics, Stanford	2025	Co-Founder, Flapping Airplanes
Parth Nobel	Electrical Engineering, Stanford	2025	Co-Founder and CTO, Optimal Intellect
John Cherian	Statistics, Stanford	2025	Meta
Zhaomeng Chen	Statistics, Stanford	2025	Quantitative Researcher, Citadel Securities
Jayoon Jang	Statistics, Stanford	2024	Data Scientist, Moloco
Ying Jin	Statistics, Stanford	2024	Faculty, Wharton School at University of Pennsylvania
Isaac Gibbs	Statistics, Stanford	2024	Post-doctoral researcher, UC Berkeley
Shuangning Li	Statistics, Stanford	2022	Faculty, The University of Chicago Booth School of Business
Qian Zhao	Statistics, Stanford	2021	Faculty, University of Massachusetts—Amherst
Zhimei Ren	Statistics, Stanford	2021	Faculty, Wharton School at University of Pennsylvania
Qijia Jiang	Electrical Engineering, Stanford	2021	Faculty, UC Davis
Stephen Bates	Statistics, Stanford	2020	Faculty, Massachusetts Institute of Technology
Matteo Sesia	Statistics, Stanford	2020	Faculty, University of Southern California
Evan Patterson	Statistics, Stanford	2020	Research Scientist, Topos Institute
Pragya Sur	Statistics, Stanford	2019	Faculty, Harvard University
David Barmherzig	Institute of Computational and Mathematical Engineering, Stanford	2019	Flatiron Institute, Simons Foundation
Lucas Janson	Statistics, Stanford	2017	Faculty, Harvard University

Wejie Su	Statistics, Stanford	2016	Faculty, Wharton School at University of Pennsylvania
Carlos Sing Long	Institute of Computational and Mathematical Engineering, Stanford	2016	Faculty, Pontificia Universidad Catolica de Chile
Alexandra Chouldechova	Statistics, Stanford	2014	Faculty, Carnegie Mellon University
Mahdi Soltanolkotabi	Electrical Engineering, Stanford	2014	Faculty, University of Southern California
Carlos Fernández Granda	Electrical Engineering, Stanford	2014	Faculty, Courant Institute at New York University
Vladislav Voroninski	Mathematics, UC Berkeley	2013	CEO, Helm.ai
Xiaodong Li	Mathematics, Stanford	2013	Faculty, UC Davis
Yaniv Plan	Applied and Comp. Math., Caltech	2011	Faculty, University of British Columbia
Stephen Becker	Applied and Comp. Math., Caltech	2011	Faculty, University of Colorado at Boulder
Paige Alicia Randall	Physics, Caltech	2009	Center for Communications Research at Princeton
Hannes Helgason	Applied and Comp. Math., Caltech	2008	Faculty, University of Iceland and deCODE Genetics/Amgen
Laurent Demanet	Applied and Comp. Math., Caltech	2006	Faculty, Massachusetts Institute of Technology

Other advising activities

M.Sc. advisor, Department of Statistics, Stanford University, 2010–2012

Department representative, Applied and Computational Mathematics, Caltech, 2001–2005:
Provided consultation on academic programs, degree requirements, financial aid, etc., and provided general supervision to graduate students in the department.

Professional service

Editorial boards

IEEE Journal on Selected Areas in Information Theory, 2019–present
Bulletin of the American Mathematical Society, 2014–present
Information and Inference, 2011–present
Applied and Computational Harmonic Analysis, 2010–present
IEEE Transactions on Signal Processing, 2010–2014
Journal of the American Mathematical Society, 2008–present
SIAM Journal on Imaging Sciences, 2007–2012
Multiscale Modeling and Simulation, 2006–2012
Foundations of Computational Mathematics, 2007–2020
Inverse Problems and Imaging, 2006–present

Elected member of the Advisory Board, *Foundations of Computational Mathematics*, 2005
Numerische Mathematik, 2003–2010
Constructive Approximation, 2002–present

National and international committees

Chair of Selection Committee, Lucien Le Cam Lecture, Société Française de Statistique, 2023–2024
Member of Evaluation Committee of proposals for Data Science Research Centers, The Data Science Initiative of the Council for Higher Education, Israel, 2020
Proc. Nat. Acad. Sci. Cozzarelli Prize Committee, 2015–2019
Chair, Wiener Prize Committee, American Mathematical Society & Society for Industrial and Applied Mathematics, 2018
Jury member, BBVA Foundation Frontiers of Knowledge Awards in the basic sciences, 2018–present
Nevanlinna Prize Committee, 2017–2018
Core panel member, Section 12, Probability & Statistics, International Congress of Mathematicians, 2018
International Congress of Mathematicians, 2015–2017
Scientific Advisory Board, Simons Institute for the Theory of Computing, 2015–present
Vice Chair, Science Advisory Board, Institute of Pure & Applied Mathematics, 2014–present
SIAM Polya Prize Committee, 2014
Chair, Section 17, Mathematics in Science & Technology, International Congress of Mathematicians, 2014
International Congress of Mathematicians, 2012–2013
Member, Scientific Board of the Institut des Hautes Études Scientifiques (IHES), France, 2011–2017
The Mathematical Sciences in 2025, The Board on Mathematical Sciences and its Applications, 2010–2012
SIAM Major Award Committee, 2009–2012
Elected leader, SIAM Activity Group on the Imaging Sciences, 2003

Conference organization

Math+Stats+X, A Conference on the Occasion of Dave Donoho's 60th Birthday, Stanford University, 2017
Applied Harmonic Analysis, Massive Data Sets, Machine Learning, and Signal Processing, BIRS, 2016
Program and Organizing Committee Chair, Modern Trends in Optimization, Institute of Pure and Applied Mathematics, 2010
Multiscale Geometry and Analysis in High Dimensions, Institute of Pure and Applied Mathematics, 2004
Multiscale Geometric Analysis, Institute for Pure and Applied Mathematics, 2003
Session organizer, Applied Inverse Problems, 2003

Program committees

SIAM Conference on Imaging Science, 2010
Wavelets X, SPIE Annual Meeting, 2005
IAM Conference on Imaging Science, 2004
Second International Conference on Computational Harmonic Analysis, 2004
Wavelets X, SPIE Annual Meeting, 2003

Academic responsibilities

Chair, Department of Statistics, Stanford University, 2016–2018
Vice Chair, Department of Statistics, Stanford University, 2012–2013

Executive Officer (Dept. Chair), Applied and Computational Mathematics, Caltech, 2009

National responsibilities

Chair, Applied Mathematical Sciences Section, National Academy of Sciences, 2018–2021

Talks & presentations

Plenary and distinguished lectures

Plenary Lecture, 46th International Symposium on Forecasting, Montreal, Canada, July 2026

Keynote Lecture, 2026 ICSA Applied Statistical Symposium, George Mason University, June 2026

Plenary Lecture, 2026 IEEE International Conference on Acoustics, Speech, and Signal Processing, Barcelona, Spain, May 2026

Keynote Lecture, Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, California, October 2025

Keynote Lecture, AI, Science, and Society: Collectives, Collaboration, and Connections, Paris, France, February 2025

Plenary Lecture, 2024 Shenzhen International Conference on Frontiers of Statistics and Data Science, December 2024

Plenary Lecture, ICME 20th Anniversary, Stanford University, November 2024

Plenary Lecture, The Human Advantage, Paris, France, September 2024

Plenary Lecture, EnCORE Institute, University of California at San Diego, 2024

Keynote Speaker, ELLIS RobustML Workshop, Dipoli, Espoo, Finland, September 2023

Plenary Lecture, Groupement de recherche ISIS Information Signal Image viSion, Lyon, France, May 2023

Plenary Lecture, ICORS2023 : International Conference on Robust Statistics, Toulouse, France, May 2023

NSF Distinguished Lecturer, Directorate for Mathematical and Physical Sciences, April 2023

Plenary Lecture, 2022 IMS International Conference on Statistics and Data Science (ICSDS), Florence, Italy, December 2022

Keynote Lecture, Machine Learning for Health (ML4H), New Orleans, November 2022

Plenary Lecture, Statistical Methods and Models for Complex Data: 800 years of research to understand a complex world, University of Padova, Italy, September 2022

Plenary Lecture, IMS-COLT Workshop, London, July 2022

Distinguished Lecture Series, Harvard's Institute for Applied Computational Sciences (IACS), October 2021

Plenary Lecture, AISTATS 2021, April 2021

Invited Lecture, Math & IA, Paris, France, March 2021

Plenary Lecture, Halıcıoğlu Data Science Institute 3rd Year Anniversary, San Diego, March 2021

Keynote Lecture, Bernoulli-IMS One World Symposium, August 2020

Keynote Lecture, Machine Learning Conference, VMware, Palo Alto, October 2019

Keynote Lecture, ACM-IMS Interdisciplinary Summit on the Foundations of Data Science, San Francisco, June 2019

Plenary Lecture, Joint Mathematical Meetings, Baltimore, January 2019

Plenary Lecture, Gauss Prize Laudatio, International Congress of Mathematicians, Rio de Janeiro, August 2018

Keynote Speaker, International Congress of Mathematical Optimization (ISMP 2018), Bordeaux, July 2018

Plenary Lecture, Curves and Surfaces 2018, Arcachon (France), July 2018

Keynote Lecture, STOC 2018 TheoryFest: 50th Annual ACM Symposium on the Theory of Computing, Los Angeles, June 2018

Keynote Lecture, 2017 International Conference on Data Science, Shanghai, December 2017

Plenary Lecture, Information Theory and Applications, San Diego, February 2017

Plenary Lecture, International Symposium on Information Theory and Its Applications, Monterey, November 2016

Claude E. Shannon Centennial Celebration, University of Michigan, September 2016

Conference in honour of Jean-Pierre Kahane, Paris, July 2016

Boeing distinguished colloquium, University of Washington, March 2016

2015 Mathematics and Physical Sciences Annual Meeting, Simons Foundation, New York, October 2015

Plenary Lecture, The 2015 European Signal Processing Conference (EUSIPCO 2015), Nice, September 2015

Special Lecturer, Signal Processing with Adaptive Sparse Structured Representations (SPARS 2015), University of Cambridge, UK, July 2015

Plenary Lecture, Big Data and Computational Scalability, University of Warwick, UK, July 2015

Plenary Lecture, 5th International Workshop on Pattern Recognition in Neuroimaging, Stanford, June 2015

Distinguished Lecture, University of South Carolina, April 2015

Plenary Lecture, International Conference on Optimization, Sparsity and Adaptive Data Analysis, Beijing, China, March 2015

Keynote Speaker, International Conference on Computational Photography, Santa Clara, May 2014

Plenary Lecture, Horizons de la Statistique, Paris, France, January 2014

Plenary Lecture, Joint Mathematics Meetings, Baltimore, January 2014

Distinguished Lecture Series in Celebrating 100 Years of Mathematics at Peking University, Beijing, China, October 2013

Keynote Lecture, 43rd European Solid-State Device Research Conference (ESSDERC 2013), Bucharest, September 2013

Plenary Lecture, IEEE International Symposium on Information Theory (ISIT 2013), Istanbul, July 2013

Plenary Lecture, 10th International Conference on Sampling Theory and Applications (SampTA 2013), Bremen, July 2013

Keynote Speaker, International Society for Magnetic Resonance in Medicine (ISMRM) Workshop on Data Sampling and Image Reconstruction, Sedona, Arizona, February 2013

Matheon Talk, Berlin, June 2012

Plenary Lecture, International Conference on Nonparametric Statistics, Greece, June 2012

Plenary Lecture, Challenges in Geometry, Analysis and Computation: High Dimensional Synthesis, Yale, June 2012

Public Lecture, Simons Foundation, New York City, May 2012

Plenary Lecture, IEEE International Symposium on Biomedical Imaging (ISBI), Barcelona, Spain, May 2012

Pacific Institute for the Mathematical Sciences/University of British Columbia Distinguished Colloquium, Vancouver, February 2012

Keynote Lecture, Computing in the 21st Century Conference, Beijing, China, October 2011

Plenary Lecture, Frontiers of Computational and Applied Mathematics, Peking University, Beijing, China, October 2011

Plenary Lecture, Berkeley Optimization Day, UC Berkeley, October 2011

Keynote Lecture, 2011 International Workshop on Biomedical and Astronomical Signal Processing (BASP) Frontiers, Lausanne, Switzerland, September 2011

Plenary Lecture, GRETSI Symposium on Signal and Image Processing GRETSI 2011, Bordeaux, France, September 2011

Plenary Lecture, 8th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition, Saint Petersburg, Russia, July 2011

Distinguished Lecture, Annual Cryptological Exchange Conference, La Jolla, May 2011

London Mathematical Society Invited Lecturer, Cambridge, United Kingdom, March 2011

Distinguished Seminar Series, The Scientific Computing and Imaging Institute, University of Utah, February 2011

Invited Lecture, First EU-US Frontiers of Engineering Symposium, Cambridge, UK, September 2010

Keynote Lecture, New Trends in Harmonic and Complex Analysis, Bremen, July 2010

Plenary Lecture, Pacific Rim Conference on Mathematics, Stanford, June 2010

Plenary Lecture, BIT 50 – Trends in Numerical Computing, Lund, Sweden, June 2010

Plenary Lecture, 8th AIMS International Conference on AIMS Dynamical Systems, Differential Equations and Applications, May 2010

Distinguished Speaker Series, UC Irvine Center for Machine Learning and Intelligent Systems, May 2010

Distinguished Lecture Series, UC Berkeley Electrical Engineering and Computer Science, March 2010

Plenary Lecture, ACM-SIAM Symposium on Discrete Algorithms (SODA10), January 2010

Opening Lecture, The European Meetings of Statisticians, Toulouse, July 2009

Plenary Lecture, EPSRC Symposium Capstone Conference, Warwick, July 2009

Tutorial Lectures, 2009 IEEE International Symposium on Information Theory, Seoul, June 2009

Keynote Lecture, Conference on Time-Frequency Strobl, June 2009

Plenary Lecture, Theory and Practice of Computational Learning, Chicago, June 2009

Keynote Lecture, IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS '09), Los Angeles, June 2009

Distinguished Lecture, Northwestern University Electrical Engineering and Computer Science, April 2009

Distinguished Visitor Program, University of Wisconsin-Madison Department of Mathematics, March 2009

ICES Distinguished Speaker Series, University of Texas Institute for Computational Engineering and Sciences, 2008

Plenary Lecture, Research Association on Mathematical Programming (RAMP 2008), Tokyo, October 2008

Plenary Lecture, Workshop on Nonparametric Inference, Coimbra, June 2008

Plenary Lecture, Foundations of Computational Mathematics, Hong Kong, June 2008

Plenary Lecture, Astronomical Data Analysis (ADA V), Crete, May 2008

Distinguished Lecturer, CISE Distinguished Lecture Series National Science Foundation, March 2008

Distinguished Lecture Series in Electrical Engineering, University of Southern California, 2008

Plenary Lecture, AMS 2007 Fall Western Section Meeting Albuquerque, New Mexico, October 2007

Plenary Lecture, 2007 IEEE International Conference on Image Processing in San Antonio, September 2007

Plenary Lecture, IEEE Information Theory Workshop, Lake Tahoe, California, September 2007

Plenary Lecture, IEEE Statistical Signal Processing Workshop 2007, Madison, Wisconsin, August 2007

Keynote Lecture, Ninth IASTED International Conference on Signal and Image Processing, Honolulu, Hawaii, August 2007

Plenary Lecture, The 2007 von Neumann Symposium, Snowbird, Utah, July 2007

Plenary Lecture, Symposium on Mathematics and Science in Digital Media, Technology and Entertainment, Singapore, July 2007

Plenary Lecture, Conference on Applied Inverse Problems 2007: Theoretical and Computational Aspects, Vancouver, Canada, June 2007

Plenary Lecture, Computational Optical Sensing and Imaging, Optical Society of America, Vancouver, Canada, June 2007

Plenary Lecture, The First International Conference on Scale-Space and Variational Methods in Computer Vision, Ischia, Italy, May 2007

Distinguished Colloquium Series, University of British Columbia, 2007

Distinguished Lectures Series, Arizona State University, 2007

Plenary Lecture, Barcelona Analysis Conference, Barcelona, September 2006

Plenary Lecture, Waves 2006, Lausanne, July 2006

Plenary Lecture, Curves and Surfaces, Avignon, June 2006

Plenary Lecture, Mathematical Foundations of Learning Theory, Paris, France, May 2006

Plenary Lecture, SIAM Conference on Imaging Science, Minneapolis, May 2006

Distinguished Lecture Series, University of Pennsylvania, January 2006

Plenary Lecture, 2005 SIAM Annual Meeting, New Orleans, July 2005

Plenary Lecture, 2ème Congrès National de Mathématiques Appliquées et Industrielles, Evian, May 2005

Plenary Lecture, Meeting of the Mathematical Society of Japan, Tokyo, March 2005

Plenary Lecture, Perspectives in Inverse Problems, Helsinki, June 2004

Plenary Lecture, Signal Recovery and Synthesis and Integrated Computational Imaging Systems (SRS-ICIS), Albuquerque, November 2001

Plenary Lecture, Conference on Applied Inverse Problems, Montecatini, Italy, June 2001

Plenary Lecture, 10th International Conference on Approximation Theory, St. Louis, March 2001

Plenary Lecture, Royal Society Discussion Meeting, London, February 1999

Other invited lectures and presentations

Invited Lecture, Joint Statistical Meetings, Nashville, August 2025

Invited Lecture, High-dimensional Statistics, Applications, and Distributional Shifts, Zürich, Switzerland, June 2025

Invited Lecture, Foundations and Advances in Generative AI: Theory and Methods, Paris, France, February 2025

Invited Lecture, 2025 Lange Symposium on Computational & Statistical Genomics, UCLA, January 2025

Invited Lecture, Symposium in Honor of Yoav Benjamini's, Ruth Heller and Daniel Yekutieli, Tel-Aviv University, January 2025

Invited Lecture, Mathematical Aspects of Learning Theory—20 Years Later, Barcelona, Spain, September 2024

Invited Lecture, BS-IMS World Congress Pre-Meeting for Young Researchers 2024, Essen, Germany, August 2024

Invited Lecture, 2023 International Conference on Learning Representations (ICLR), April 2023

Invited Lecture, Mathematical Information Science Workshop, Lagrange Mathematical and Computing Research Center, Paris, October 2023

2023 International Conference on Artificial Intelligence and Statistics (AISTATS), April 2023

Invited Lecture, Elisabeth Gassiat - a Path in Modern Statistics, Faculté des Sciences d'Orsay, May 2023

Invited Lecture, A Multiscale Tour of Harmonic Analysis and Machine Learning, a workshop to celebrate Stéphane Mallat's 60th anniversary, IHES, April 2023

Invited Lecture, IMS Meeting, London, June 2022

Invited Lecture, Second Symposium tribute to Maxime Dahan, Institut Curie, Paris, December 2021

Invited Lecture, Workshop on Interpretability, Safety and Security in AI, Alan Turing Institute, London, December 2021

Invited Lecture, Symposium on the Mathematical Challenges and Opportunities in ML/AI, The National Academies' Board on Mathematical Sciences and Analytics, Washington DC, November 2021

Invited Lecture, 2021 Mathematical and Scientific Foundations of Deep Learning Annual Meeting, September 2021

Invited Lecture, Workshop on Uncertainty Quantification, International Conference on Machine Learning (ICML), July 2021

Invited Lecture, Mathematical Statistics and Learning, Barcelona, June 2021

Invited Lecture, Safety and Security of Deep Learning, ICERM, April 2021

Invited Lecture, Data Science Conference, Temple University, November 2020

Invited Lecture, Statistics Meets Machine Learning, Mathematisches Forschungsinstitut Oberwolfach gGmbH, Oberwolfach, January 2020

Invited Lecture, Moonshot International Symposium, Tokyo, December 2019

Invited Lecture, The Fourth Workshop on Higher-Order Asymptotics and Post-Selection Inference, St. Louis, August 2019

Invited Lecture, Joint Statistical Meetings, Denver, August 2019

Invited Lecture, Statistics Conference, in honor of Aad van der Vaart's 60th birthday, University of Leiden, June 2019

Invited Lecture, Statistical and Computational Aspects of Learning with Complex Structure, Mathematisches Forschungsinstitut Oberwolfach gGmbH, Oberwolfach, May 2019

Invited Lecture, Symposium in Honor of Yoav Benjamini's 70th Birthday, Jerusalem, December 2018

Invited Lecture, Big Data Meets Large-Scale Computing, Institute for Pure & Applied Mathematics, Los Angeles, September 2018

Invited Lecture, The Third Workshop on Higher-Order Asymptotics and Post-Selection Inference, St. Louis, September 2018

Invited Lecture, Statistical Inference for Structured High-dimensional Models, Mathematisches Forschungsinstitut Oberwolfach gGmbH, Oberwolfach, March 2018

Invited Lecture, Statistics Meets Friends – from biophysics to inverse problems and back, Göttingen, November 2017

Invited Lecture, Mathematical Methods of Modern Statistics, Luminy, France, July 2017

Invited Lecture, Statistical Recovery of Discrete, Geometric and Invariant Structures, Mathematisches Forschungsinstitut Oberwolfach gGmbH, Oberwolfach, March 2017

Invited Lecture, UC Davis Statistical Sciences Symposium 2016: Statistical Machine Learning: Theory and Methods, April 2016

Invited Lecture, European Meeting of Statisticians, Amsterdam, July 2015

Invited Lecture, Workshop on Inference in High-Dimensional Regression, AIM, San Jose, January 2015

Invited Lecture, Big Data Reunion Workshop, Simons Institute at Berkeley, December 2014

Invited Lecture, Rencontre Grenoble Lyon de Statistique, Grenoble, June 2014

Invited Lecture, CEA LETI, Grenoble, June 2014

Invited Lecture, Statistical Issues in Compressive Sensing, Göttingen, November 2013

Invited Lecture, Future of the Statistical Sciences Workshop, The Statistics 2013 Capstone Event, London, November 2013

Invited Lecture, Modern Large Scale Statistical Learning Workshop, Manhattan Beach, November 2013

Invited Lecture, Optimization and Statistical Learning, Les Houches, France, January 2013

Invited Lecture, 21st Symposium on Mathematical Programming (ISMP 2012), Berlin, August 2012

Invited Lecture, Workshop on Statistical Inference in Complex/High-Dimensional Problems, Vienna, July 2012

Invited Lecture, Phenomena in High Dimensions in Geometric Analysis, Random Matrices and Computational Geometry, Roscoff, France, June 2012

Invited Lecture, High-Dimensional Problems in Statistics, Zürich, September 2011

Main Lecturer, École d'été du 3e cycle romand de statistique et de probabilités appliquées, September 2011

Invited Lecture Schlumberger, Cambridge, March 2010

Invited Lectures, Conference on Neural Information Processing Systems (NIPS 10), Whistler, Canada, December 2010

Invited Lecture, IHES Conference on Applied Mathematics, Paris, November 2010

Invited Lecture, IPAM's 10th Anniversary Conference, Institute of Pure and Applied Mathematics, UCLA, November 2010

Invited Lecture, Modern Trends in Optimization & Its Application, Institute of Pure and Applied Mathematics, UCLA, October 2010

Invited Lectures, 2010 School of Information Theory, Los Angeles, August 2010

Invited Lecture, Joint Statistical Meetings, Vancouver, August 2010

Invited Lecture, SIAM Annual Meeting, Pittsburgh, July 2010

Tutorial Lecture, CVPR 2010: IEEE Conference on Computer Vision and Pattern Recognition, San Francisco, June 2010

Invited Lecture, Sparsity and Computation, Bonn, June 2010

Invited Lecture, 2010 Information Theory and Applications Workshop, San Diego, February 2010

Invited Lecture, Joint Mathematics Meetings, San Francisco, January 2010

Invited Lecture, 20th International Symposium of Mathematical Programming (ISMP), Chicago, August 2009

Tutorial Lectures, 2009 IEEE International Symposium on Information Theory, Seoul, June 2009

Invited Lecture, Illinois/Missouri Applied Harmonic Analysis Conference, Urbana-Champaign, March 2009

Invited Lecture, Workshop on Sparse Recovery Problems in High Dimensions: Statistical Inference and Learning Theory, Oberwolfach, March 2009

Tutorial Lecture, 22nd Annual Conference on Neural Information Processing Systems (NIPS 08), Vancouver, December 2008

Invited Lecture, Advances in Mathematical Modeling and Computational Algorithms in Information Processing, Tokyo, November 2008

Invited Lecture, Workshop in Honor of Joseph B. Keller, Stanford University, October 2008

Invited Lecture, 7th World Congress in Probability and Statistics, Singapore, July 2008

Invited Lecture, IHES 50th anniversary cycle, Paris, May 2008

Invited Tutorial Lecture, Information Theory and Applications, San Diego, January 2008

Invited Lecture, Contemporary Frontiers in High-Dimensional Statistical Data Analysis, Isaac Newton Institute for Mathematical Sciences, Cambridge, January 2008

Invited Lecture, Information Theory and Applications, San Diego, January 2007

Invited Lecture, Workshop on Inverse Problems, Oberwolfach, August 2006

Invited Lectures, Imagerie fonctionnelle et dispositifs optiques, Université de Montréal, Canada, May 2006

Invited Lecture, SPIE Defense & Homeland Security Symposium, Orlando, April 2006

Plenary Lecture, 4th International Conference on Wavelet Analysis & Its Applications, Macau, December 2005

Invited Lecture, Integration of Sensing and Processing, University of Minnesota, Minneapolis, December 2005

Invited Lecture, 46th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2005), Pittsburgh, October 2005

Semi-plenary Lecture, Foundations of Computational Mathematics 2005, Santander, July 2005

Invited Lecture, International Conference on Function Spaces, Approximation Theory, Nonlinear Analysis

dedicated to the centennial of Sergei Mikhailovich Nikolskii, Moscow, May 2005

Invited Lecturer, Wavelet And Multifractal Analysis 2004, Cargese, July 2004

Main Lecturer, XI-th Summer School in Computational Mathematics and Scientific Computing, University of Durham, July 2004

Invited Lecture, Workshop on Wavelets and Multiscale Analysis, Oberwolfach, July 2004

Two Invited Lectures, AIMS' 5th International Conference on Dynamical Systems and Differential Equations, Pomona, June 2004

Invited Lecture, International Conference on Computational Harmonic Analysis, Nashville, May 2004

Invited Lecture, SIAM Conference on Imaging Science, Salt Lake City, Utah, May 2004

Main Lecturer, 29th Annual Spring Lecture Series in the Mathematical Sciences, University of Arkansas, Fayetteville, April 2004

Invited Lecture, Workshop on "Regularization in Statistics," Banff, Canada, September 2003

Invited Lecture, Workshop on "Inverse Problems and Medical Imaging," Pacific Institute of Mathematical Sciences (PIMS), Seattle, August 2003

Invited Lecture, SPIE Wavelet X, San Diego, August 2003

Two Invited Lectures, 5th International Congress on Industrial *&* Applied Mathematics (ICIAM), Sydney, July 2003

Invited Lecture, International Conference on Approximation and Computation, Steklov Institute of Mathematics and Institute of Numerical Mathematics, Moscow, June 2003

Invited Lecture, Workshop on "Applicable Harmonic Analysis," Banff, Canada, June 2003

Invited Lecture, Applied Inverse Problems '03, Lake Arrowhead, California, May 2003

Invited Lecture, ONR PI's meeting, Minneapolis, May 2003

Invited Lecture, National Academies' Board on Mathematical Sciences *&* their Applications (BMSA), National Academies' Beckman Center, Irvine, April 2003

Invited Lecture, AMS Annual Meeting, Baltimore, January 2003

Invited Lecture, Conference on Applied Mathematics, University of Central Oklahoma, October 2002

Two Semi-Plenary Lectures, Foundations of Computational Mathematics (FoCM '02), Minnesota, August 2002

Invited Lecture, The Mathematical Geophysics Summer School, Stanford University, August 2002

Invited Lecture, DIMACS Workshop on Source Coding and Harmonic Analysis, New Jersey, May 2002

Invited Lecture, Nonparametric Smoothing in Complex Statistical Models, Switzerland, May 2002

Two Invited Lectures, SIAM Imaging Science Conference, Boston, March 2002

Invited Lecture, Inverse problems and Applications, MSRI, Berkeley, November 2001

Invited Lecture, IEEE Conference on Image Processing (ICIP2001), Thessaloniki, October 2001

Invited Lecture, Joint Statistical Meetings, Atlanta, August 2001

Two Invited Lectures, SIAM Annual Meeting, San Diego, July 2001

Invited Lecture, Statistics and Inverse Problems, Paris, May 2001

Invited Lecture, 1st Southern California Applied Mathematics Symposium (SoCAMS), Caltech, May 2001

Invited Lecture, Geometry-based Motion, Institute of Pure and Applied Mathematics, UCLA, April 2001

Invited Lecture, Rencontres statistiques, Marseille, France, December 2000

Invited Lecture, Yosemite Symposium on Multiresolution and Multiscale Methods, Yosemite, October 2000

Invited Lecture, AMS Regional Meeting, Toronto, September 2000

Two Invited lectures, SPIE Annual Meeting, San Diego, August 2000

Invited Lecture, SIAM Annual Meeting, Puerto Rico, July 2001

Plenary Lecture, CBMS Lectures Meeting, St. Louis, May 2000

Invited Lecture, 34th Annual Conference on Information Sciences and Systems, Princeton, March 2000

Invited Lecture, Foundations of Computational Mathematics, Hong Kong, November 1999

Plenary Lecture, Curves and Surfaces, Saint Malo, France, July 1999

Colloquia

Biostatistics Student-Invited Speaker Seminar, School of Public Health, University of Washington, 2025

BSYS Lecture Series, BlackRock, 2025

Round table discussion on "AI and the Future of Democracy: Challenges and Opportunities", Stanford Cyber Policy Center *&* Paris Bar Association, 2025

D. E. Shaw *&* Co., 2024

BlackRock, 2024

Section on Statistical Learning and Data Science, American Statistical Association, Webinar, 2024

International Seminar on Selective Inference, 2023

Institut Camille Jordan, Lyon, France, 2023

Friends of IHES, San Francisco, 2023

Center for the Theoretical Foundations of Learning, Inference, Information, Intelligence, Mathematics and Microeconomics at Berkeley (CLIMB), 2022

BlackRock, San Francisco, 2022

Stanford University, Statistics, 2022

SWC-Gatsby Unit, University College London, 2022

Learning Theory Seminar, Google, 2021

Mathematics of Deep Learning Seminar, Flatiron Institute, 2021

Virtual tea hour at the SWC-Gatsby Unit, University College London, 2021

University of Pennsylvania, Joint Statistics *&* CIS Seminar, 2021

TGS Management Company, 2020

Digital Transformation Institute, C3AI, 2020

Carnegie Mellon University, Statistics *&* Data Science, 2020

New York University and ETH Zürich, MAD+ Seminar, 2020

International Seminar on Selective Inference, 2020

Indian Statistical Institute, Kolkata, 2019

Stanford University, Statistics, 2019

DAWN faculty retreat, Menlo Park, 2019

Baidu Research, Sunnyvale, 2019

Stanford University, Statistics, 2018

Renaissance Technologies, Stony Brook, 2016

Stanford University, Statistics, 2016

National University of Singapore, Mathematics, 2016

McGill University, Mathematics and Statistics, 2015

University of California at Berkeley, Statistics, 2015

Charles University, Computer Science and Mathematics, 2015

Stanford University, Applied Mathematics, 2015

Stanford University, Statistics, 2014

Tel-Aviv University, Statistics, 2014

Université de Grenoble, France, 2014

École Polytechnique, France, 2014

CIMAT, Guanajuato, Mexico, 2013

Stanford University, Statistics, 2013

National Taiwan University, Electrical Engineering, 2013

Academia Sinica, Institute of Statistical Science, 2013

Stanford University, Statistics, 2012

Princeton University, Operations Research, 2012

ETH Zürich, Mathematics, 2011

EPFL Lausanne, Mathematics, 2011

Stanford University, Management Science and Engineering, 2011

University of Colorado, Computational Optical Sensing and Imaging, April 2011

University of Washington, Electrical Engineering, 2010

Stanford University, Department of Statistics, 2010

Korean Institute for Advanced Study, 2009

University of California at Davis, First Joint Mathematics/Statistics Colloquium, 2009

Duke University, Department of Mathematics, 2009

University of Southern California, Center of Applied Mathematical Sciences, 2009

Stanford University, ICME, 2009

University of California at Los Angeles, Applied Mathematics, 2008

University of Coimbra, Portugal, Department of Mathematics, 2008

University of Washington, Electrical Engineering and Computer Science, 2008

University of Cambridge, UK, 2008

Claremont Colleges, Mathematics, 2007

University of California at Los Angeles, Electrical Engineering, 2007

Claremont Colleges, Mathematics, 2007

University of Chicago, Statistics, 2007

Massachussets Institute of Technology, Laboratory for Information and Decision Systems, 2007

Stanford University, Mathematics, 2006

Stanford University, Statistics, 2006

University of California at Irvine, Mathematics, 2006

University of California at Los Angeles, Statistics, 2006

Université Paul Sabatier (Toulouse, France), Statistics, 2006

École Polytechnique Fédérale de Lausanne, Statistics, 2006

University of California at Berkeley, Applied Mathematics, 2006

University of Chicago, Applied Mathematics, 2006

Yale University, Statistics, 2006

École Polytechnique Fédérale de Lausanne, Applied Mathematics, 2005

Los Alamos National Laboratory, 2005

University of Vienna, Faculty of Mathematics, 2005

Rice University, Electrical Engineering and Applied Mathematics, 2005

Stanford University, Applied Mathematics, 2005

University of California at Irvine, Applied Mathematics, 2005

ETH Zürich, Statistics, 2004

University of California at Davis, Applied Mathematics, 2004

University of California at Los Angeles, Statistics, 2004

University of Southern California, Statistics, 2004

University of California at Los Angeles, Applied Mathematics, 2004

Université Paris-Sud d'Orsay (France), Statistics, 2002

Caltech, Applied Mathematics, 2002

University of Chicago, Applied Mathematics, 2002

University of California at Los Angeles, Mathematics, 2002

University of California at Los Angeles, Applied Mathematics, 2001

École Normale Supérieure (France), Applied Mathematics, 2001

University of California at Los Angeles, Statistics, 2001

University of California at Los Angeles, Applied Mathematics, 2000

Stanford University, Statistics, 2000

University of California at Santa Barbara, Statistics, 2000

Caltech, Applied Mathematics, 2000

New York University (Courant Institute), Applied Mathematics, 2000

Brown University, Applied Mathematics, 2000

Massachusetts Institute of Technology, Applied Mathematics, 2000

University of Wisconsin, Statistics, 2000

Rutgers University, Statistics, 2000

ETH (Switzerland), Statistics, 2000

University of Pennsylvania, Wharton School of Business, 2000

Stanford University, Applied Mathematics, 2000

Hewlett Packard, Palo Alto, California, 1999

University of California at Berkeley, Biostatistics, 1999

Yale University, Statistics, 1999

University of South Carolina, Mathematics, 1998

University of California at Berkeley, Statistics, 1998

University of Chicago, Graduate School of Business, 1998

Stanford University, Statistics, 1998

University of Washington, Statistics, 1998

University of Chicago, Statistics, 1998

Columbia University, Applied Mathematics, Statistics, 1998

Tel-Aviv University (Israel), School of Mathematical Sciences, 1996

Summer and short courses

Main Lecturer, StatMathAppli 2015, Fréjus, France, August 2015

Summer Lecturer, Machine Learning Summer School, Kyoto, Japan, August 2015

Main Lecturer, Polynomial Optimisation, Cambridge, United Kingdom, July 2013

Main Lecturer, Stochastics Meeting Lunteren, Lunteren, The Netherlands, November 2012

Main Lecturer, 41st Probability Summer School, Saint Flour, France, July 2011

London Mathematical Society Lecturer, University of Cambridge, United Kingdom, March 2011

Lecturer at the 2010 School of Information Theory, University of Southern California, Los Angeles, August 2010

Main Lecturer, New Directions Short Course "Compressive Sampling and Frontiers in Signal Processing", Institute of Mathematics and Its Applications, University of Minnesota, June 2007

Invited Lecturer, Multiscale Geometric Data Representation - Complexity, Analysis and Applications, ETH Zürich, September 2004

Main Lecturer, Mathematics and Computation in Imaging Science and Information Processing, National Uni-

versity of Singapore, 2004

Main Lecturer, XI-th Summer School in Computational Mathematics and Scientific Computing, University of Durham, July 2004

Main Lecturer, NSF-sponsored 29th Annual Spring Lecture Series in the Mathematical Sciences, University of Arkansas, 2004

Summer Lecturer, Spline-Based Wavelets, Frames and Applications to PDEs and Images, Denmark, August 2001

All publications available from https://candes.su.domains/publications/.

Publications

[1] E. J. Candès. "Ridgelets: theory and applications". PhD thesis. Department of Statistics, Stanford University, 1998.

[2] E. J. Candès. "Harmonic analysis of neural networks". *Applied and Computational Harmonic Analysis* 6.2 (1999), pp. 197–218.

[3] E. J. Candès and D. L. Donoho. "Ridgelets: a key to higher-dimensional intermittency?" *Philosophical Transactions of the Royal Society of London A* 357.1760 (1999), pp. 2495–2509.

[4] E. J. Candès. *Monoscale ridgelets for the representation of images with edges*. Tech. rep. Department of Statistics, Stanford University, 1999.

[5] E. J. Candès and D. L. Donoho. "Curvelets: a surprisingly effective nonadaptive representation for objects with edges". *Curves and Surfaces*. Vanderbilt University Press, 1999.

[6] E. J. Candès. "Ridgelets and their derivatives: representation of images with edges". *Curves and Surfaces*. Vanderbilt University Press, 1999.

[7] E. J. Candès and D. L. Donoho. "Curvelets and reconstruction of images from noisy radon data". *Wavelet Applications in Signal and Image Processing VIII*. Vol. 4119. Proc. SPIE. 2000.

[8] E. J. Candès and D. L. Donoho. "Curvelets, multiresolution representation, and scaling laws". *Wavelet Applications in Signal and Image Processing VIII*. Vol. 4119. Proc. SPIE. 2000.

[9] E. J. Candès. "Ridgelets and the representation of mutilated Sobolev functions". *SIAM Journal on Mathematical Analysis* 33.2 (2001), pp. 347–368.

[10] E. J. Candès and D. L. Donoho. "Curvelets and curvilinear integrals". *Journal of Approximation Theory* 113.1 (2001), pp. 59–90.

[11] J.-L. Starck, E. J. Candès, and D. L. Donoho. "Very high quality image restoration by combining wavelets and curvelets". *Wavelet Applications in Signal and Image Processing IX*. Vol. 4478. Proc. SPIE. 2001.

[12] E. J. Candès and D. L. Donoho. "Recovering edges in ill-posed inverse problems: optimality of curvelet frames". *Annals of Statistics* (2002), pp. 784–842.

[13] J.-L. Starck, E. J. Candès, and D. L. Donoho. "The curvelet transform for image denoising". *IEEE Transactions on Image Processing* 11.6 (2002), pp. 670–684.

[14] E. J. Candès. "New ties between computational harmonic analysis and approximation theory". *Approximation Theory X*. Vanderbilt University Press, 2002, pp. 87–153.

[15] E. J. Candès and F. Guo. "New multiscale transforms, minimum total variation synthesis: applications to edge-preserving image reconstruction". *Signal Processing* 82.11 (2002), pp. 1519–1543.

[16] E. J. Candès. *Multiscale chirplets and near-optimal recovery of chirps*. Tech. rep. Department of Statistics, Stanford University, 2002.

[17] E. J. Candès. "Ridgelets: estimating with ridge functions". *Annals of Statistics* (2003), pp. 1561–1599.

[18] J.-L. Starck, F. Murtagh, E. J. Candès, and D. L. Donoho. "Gray and color image contrast enhancement by the curvelet transform". *IEEE Transactions on Image Processing* 12.6 (2003), pp. 706–717.

[19] A. G. Flesia, H. Hel-Or, A. Averbuch, E. J. Candès, R. R. Coifman, and D. L. Donoho. "Digital implementation of ridgelet packets". *Studies in Computational Mathematics* 10 (2003), pp. 31–60.

[20] J.-L. Starck, D. L. Donoho, and E. J. Candès. "Astronomical image representation by the curvelet transform". *Astronomy & Astrophysics* 398.2 (2003), pp. 785–800.

[21] E. J. Candès and L. Demanet. "Curvelets and Fourier integral operators". *Comptes Rendus Mathematique* 336.5 (2003), pp. 395–398.

[22] E. J. Candès and D. L. Donoho. "New tight frames of curvelets and optimal representations of objects with piecewise C2 singularities". *Communications on Pure and Applied Mathematics* 57.2 (2004), pp. 219–266.

[23] E. J. Candès and D. L. Donoho. "Continuous curvelet transform: II. discretization and frames". *Applied and Computational Harmonic Analysis* 19.2 (2005), pp. 198–222.

[24] E. J. Candès and D. L. Donoho. "Continuous curvelet transform: I. resolution of the wavefront set". *Applied and Computational Harmonic Analysis* 19.2 (2005), pp. 162–197.

[25] E. J. Candès and L. Demanet. "The curvelet representation of wave propagators is optimally sparse". *Communications on Pure and Applied Mathematics* 58.11 (2005), pp. 1472–1528.

[26] E. J. Candès and J. Romberg. "Practical signal recovery from random projections". *Wavelet Applications in Signal and Image Processing XI*. Vol. 5914. Proc. SPIE. 2005.

[27] E. J. Candès and T. Tao. "Decoding by linear programming". *IEEE Transactions on Information Theory* 51.12 (2005), pp. 4203–4215.

[28] E. J. Candès, M. Rudelson, T. Tao, and R. Vershynin. "Error correction via linear programming". *Proceedings of the 46th Annual IEEE Symposium on Foundations of Computer Science (FOCS)*. IEEE. 2005, pp. 295–308.

[29] E. J. Candès, J. Romberg, and T. Tao. "Robust uncertainty principles: exact signal reconstruction from highly incomplete frequency information". *IEEE Transactions on Information Theory* 52.2 (2006), pp. 489–509.

[30] E. J. Candès and J. Romberg. "Quantitative robust uncertainty principles and optimally sparse decompositions". *Foundations of Computational Mathematics* 6.2 (2006), pp. 227–254.

[31] E. J. Candès and T. Tao. "Near-optimal signal recovery from random projections: universal encoding strategies?" *IEEE Transactions on Information Theory* 52.12 (2006), pp. 5406–5425.

[32] E. J. Candès, J. Romberg, and T. Tao. "Stable signal recovery from incomplete and inaccurate measurements". *Communications on Pure and Applied Mathematics* 59.8 (2006), pp. 1207–1223.

[33] E. J. Candès, L. Demanet, D. Donoho, and L. Ying. "Fast discrete curvelet transforms". *Multiscale Modeling & Simulation* 5.3 (2006), pp. 861–899.

[34] E. J. Candès and L. Ying. "The phase flow method". *Journal of Computational Physics* 220.1 (2006), pp. 184–215.

[35] E. J. Candès. "Modern statistical estimation via oracle inequalities". *Acta Numerica* 15 (2006), pp. 257–325.

[36] E. J. Candès and L. Ying. "Fast geodesics computation with the phase flow method". *Journal of Computational Physics* 220.1 (2006), pp. 6–18.

[37] E. J. Candès. "Compressive sampling". *Proceedings of the International Congress of Mathematicians*. Vol. 3. Madrid, Spain, 2006, pp. 1433–1452.

[38] E. J. Candès and T. Tao. "The Dantzig selector: statistical estimation when p is much larger than n". *Annals of Statistics* 35.6 (2007), pp. 2313–2351.

[39] E. J. Candès, L. Demanet, and L. Ying. "Fast computation of Fourier integral operators". *SIAM Journal on Scientific Computing* 29.6 (2007), pp. 2464–2493.

[40] E. J. Candès and J. Romberg. "Sparsity and incoherence in compressive sampling". *Inverse Problems* 23.3 (2007), p. 969.

[41] E. J. Candès and T. Tao. "Rejoinder: 'the Dantzig selector: statistical estimation when p is much larger than n'". *Annals of Statistics* 35.6 (2007), pp. 2392–2404.

[42] E. J. Candès, P. R. Charlton, and H. Helgason. "Detecting highly oscillatory signals by chirplet path pursuit". *Applied and Computational Harmonic Analysis* 24.1 (2008), pp. 14–40.

[43] E. J. Candès and P. Randall. "Highly robust error correction by convex programming". *IEEE Transactions on Information Theory* 54.7 (2008), pp. 2829–2840.

[44] E. Arias-Castro, E. J. Candès, H. Helgason, and O. Zeitouni. "Searching for a trail of evidence in a maze". *Annals of Statistics* 36.4 (2008), pp. 1726–1757.

[45] E. J. Candès and M. B. Wakin. "An introduction to compressive sampling". *Signal Processing Magazine* 25.2 (2008), pp. 21–30.

[46] E. J. Candès, M. B. Wakin, and S. P. Boyd. "Enhancing sparsity by reweighted ℓ_1 minimization". *Journal of Fourier Analysis and Applications* 14.5-6 (2008), pp. 877–905.

[47] E. J. Candès. "The restricted isometry property and its implications for compressed sensing". *Comptes Rendus Mathematique* 346.9 (2008), pp. 589–592.

[48] E. J. Candès and T. Tao. "Reflections on compressed sensing". *IEEE Information Theory Society Newsletter* 58.4 (2008), pp. 14–17.

[49] E. J. Candès and Y. Plan. "Near-ideal model selection by ℓ_1 minimization". *Annals of Statistics* 37.5A (2009), pp. 2145–2177.

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