



## Google Faculty Research Awards 2016

### Algorithms and Optimization

Adel Javanmard and Hamid Nazerzadeh, University of Southern California  
Aleksander Mądry, Massachusetts Institute of Technology  
Aditya Bhaskara, University of Utah  
Gregory Valiant, Stanford University  
Jacek Gondzio, University of Edinburgh  
Paolo Ferragina, University of Pisa

### Computational Neuroscience

Benedetto De Martino, University College London and Sangwan Lee, Korea Advanced Institute of Science and Technology  
Colin Akerman, University of Oxford  
Edward Boyden, Massachusetts Institute of Technology  
Joel Zylberberg, University of Colorado Denver  
Joshua Tenenbaum, Massachusetts Institute of Technology and Samuel Gershman, Harvard University

### Cooling and Power

Kenneth Goodson, Stanford University

### Geo / Maps

Dimitrios Gunopulos, National and Kapodistrian University of Athens  
Moustafa Youssef, EgyptJapan University of Science and Technology (EJUST)  
Pieter Peers, College of William & Mary

### Human-Computer Interaction

David Karger, Massachusetts Institute of Technology  
Enrico Bertini and Yindalon Aphinyanaphongs, New York University  
James Fogarty, University of Washington  
Kami Vaniea, University of Edinburgh  
Larry Birnbaum, Northwestern University  
Matt Huenerfauth, Rochester Institute of Technology  
Mor Naaman, Cornell Tech  
Ranjitha Kumar, University of Illinois at Urbana Champaign  
Xiaojun Bi, State University of New York Stony Brook

### **Information Retrieval and Real Time Content**

Evangelos Kanoulas, University of Amsterdam  
Guido Zuccon, Queensland University of Technology  
Luc Van Gool, ETH Zurich  
Oren Kurland, Technion Israel Institute of Technology

### **Machine learning and Data Mining**

Daniel Roy, University of Toronto  
Francesco Orabona, State University of New York Stony Brook  
Ilias Diakonikolas, University of Southern California  
Josef Urban, Czech Technical University in Prague  
Ken Goldberg, University of California, Berkeley  
Martin Jaggi, Ecole Polytechnique Federale de Lausanne  
Mehryar Mohri, New York University  
Nathan Srebro, Toyota Technological Institute at Chicago  
Nicholas Lane, University College London  
Shimon Whiteson, University of Oxford  
Tamara Broderick, Massachusetts Institute of Technology  
Tim Roughgarden, Stanford University  
Vibhanshu Abhishek, Carnegie Mellon University

### **Machine Perception**

Alexei Efros, University of California, Berkeley  
David Bull, University of Bristol  
Devi Parikh, Georgia Institute of Technology  
Dimosthenis Karatzas, Universitat Autònoma de Barcelona and Andrew Bagdanov, Università degli Studi di Firenze  
Florian Metzger, Carnegie Mellon University  
Francesc MorenoNoguer, Universitat Politècnica de Catalunya  
Ivan Dokmanic, University of Illinois at Urbana Champaign  
Kenneth Rose, University of California, Santa Barbara  
Kristen Grauman, University of Texas at Austin  
Nick Pears, University of York  
Raquel Urtasun, University of Toronto  
Robert Platt, Northeastern University  
Roland Siegwart, ETH Zurich  
Tsachy Weissman, Stanford University  
Thomas Sikora, Technical University Berlin and DIW Berlin  
Yasutaka Furukawa, Washington University in St. Louis  
Yi Yang, University of Technology Sydney

### **Machine Translation**

Graham Neubig, Carnegie Mellon University

Kyunghyun Cho, New York University  
Philipp Koehn, Johns Hopkins University

### **Mobile**

Fan Ye, State University of New York Stony Brook  
Lakshminarayanan Subramanian, New York University  
Paul Groves, University College London  
Swarun Kumar, Carnegie Mellon University  
Vijay Janapa Reddi, University of Texas at Austin  
Vivienne Sze, Massachusetts Institute of Technology

### **Natural Language Processing**

Brendan O'Connor, University of Massachusetts Amherst  
David Chiang, University of Notre Dame  
Jason Eisner, Johns Hopkins University  
Kevin Gimpel, Toyota Technological Institute at Chicago  
Milica Gasic, University of Cambridge  
Mohit Bansal, University of North Carolina at Chapel Hill  
Samuel Bowman, New York University  
Taylor Berg-Kirkpatrick, Carnegie Mellon University  
Yun-Nung (Vivian) Chen, National Taiwan University

### **Networking**

Chee Wei Wong, University of California, Los Angeles  
George Varghese, University of California, Los Angeles  
Harsha Madhyastha, University of Michigan  
Keith Winstein, Stanford University  
Michael Schapira, Hebrew University and Brighten Godfrey, University of Illinois at Urbana Champaign  
Ming Wu, University of California, Berkeley  
Phillipa Gill, University of Massachusetts Amherst  
Renata Teixeira, INRIA and David Choffnes, Northeastern University  
Thomas Anderson, University of Washington  
Vishal Misra, Columbia University

### **Other**

Adrian Sampson, Cornell University  
Justine Cassell, Carnegie Mellon University  
Karen Liu, Georgia Institute of Technology  
Pei Zhang and Hae Young Noh, Carnegie Mellon University  
Scott Kuindersma, Harvard University

### **Physical Interfaces and Immersive Experiences**

Hugh Herr, Massachusetts Institute of Technology

Leah Findlater and Jon Froehlich, University of Maryland College Park  
Scott Hudson, Carnegie Mellon University  
Shreyas Sen, Purdue University  
Vincent Hayward, University of London

### **Privacy**

Guevara Noubir, Northeastern University  
Kamalika Chaudhuri, University of California, San Diego  
Mariana Raykova, Yale University  
Prateek Mittal, Princeton University  
Sewoong Oh, University of Illinois at Urbana Champaign  
Susan Landau, Worcester Polytechnic Institute (WPI)  
Yuvraj Agarwal and Jason Hong, Carnegie Mellon University

### **Quantum and Computing**

Antonello Scardicchio, SISSA  
Austin Minnich, California Institute of Technology  
Clare Yu, University of California, Irvine

### **Security**

Adam Chlipala, Massachusetts Institute of Technology  
David Lie, University of Toronto  
Michelle L. Mazurek, University of Maryland College Park  
Philip Levis, Stanford University  
Sarah Meiklejohn, University College London  
Sascha Fahl, Saarland University  
Suman Jana, Columbia University

### **Software Engineering and Programming Languages**

Anthony Widjaja Lin, University of Oxford  
Brad Myers, Carnegie Mellon University  
Danny Dig, Oregon State University  
Jan Vitek, Northeastern University  
Loris D'Antoni, University of Wisconsin Madison  
Tiark Rompf, Purdue University

### **Speech**

Alan W Black, Carnegie Mellon University  
Mark Gales, University of Cambridge  
Oldřich Plchot, Brno University of Technology  
Reinhold Haeb-Umbach, Paderborn University

### **Structured Data, Extraction, Semantic Graph, and Database Management**

Arun Kumar, University of California, San Diego

Immanuel Trummer, Cornell University  
Yufei Tao, University of Queensland

### **Systems (hardware and software)**

Christophe Dubach, University of Edinburgh  
Dan Ports, University of Washington  
David Brooks, Harvard University  
Dmitri Strukov, University of California, Santa Barbara  
Gernot Heiser, University of New South Wales  
James Mickens, Harvard University  
Kayvon Fatahalian, Carnegie Mellon University  
Lorenzo Alvisi, Cornell University  
Mark Hill, Michael Swift, and David Wood, University of Wisconsin – Madison  
Martha Kim, Columbia University  
Nathan Beckmann, Carnegie Mellon University  
Rachit Agarwal, Cornell University  
Robbert VanRenesse, Cornell University  
Tor Aamodt, University of British Columbia  
Wojciech Golab, University of Waterloo

### **Virtual Reality**

Feng Qian, Indiana University Bloomington  
Ravi Ramamoorthi, University of California, San Diego  
Sean Follmer, Stanford University  
Xinyu Zhang, University of Wisconsin Madison,