

Hany Farid

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APPOINTMENTS	Dartmouth College <i>Professor, Department of Computer Science</i> Fourandsix Technologies, Inc. <i>Chief Technology Officer and Co-founder</i> University of California, Berkeley <i>Visiting Scholar</i> Dartmouth College <i>Director, Neukom Institute for Computational Science</i> <i>William H. Neukom 1964 Distinguished Professor of Computational Science</i> <i>David T. McLaughlin Distinguished Professor of Computer Science</i> <i>Professor, Department of Computer Science</i> <i>Associate Professor, Department of Computer Science</i> <i>Assistant Professor, Department of Computer Science</i>	2006 – present 2011 – present 2010 – present 2008 – 2011 2008 – 2011 2007 – 2008 2006 – 2007 2004 – 2006 1999 – 2004
EDUCATION	Massachusetts Institute of Technology <i>Postdoctoral Fellow, Brain and Cognitive Sciences</i> University of Pennsylvania <i>Ph.D., Computer Science</i> State University of New York at Albany <i>M.S., Computer Science</i> University of Rochester <i>B.S., Computer Science with Applied Mathematics</i>	1997 – 1999 1993 – 1997 1990 – 1992 1984 – 1988
AWARDS	IEEE Signal Processing Society Best Paper Award, 2010 University at Albany Excellence in Science and Technology Award, 2010 John Simon Guggenheim Fellowship, 2006 Alfred P. Sloan Fellowship, 2002 Graduate Teaching Award, University of Pennsylvania, 1994	
GRANTS	National Science Foundation. <i>Instrument Development for Biological Research</i> (212K), Co-PI, 2008 National Science Foundation. <i>Digital Imaging Laboratory at Dartmouth</i> (427K), 2007 Department of Homeland Security. <i>Digital Video Forensics</i> (255K), 2007 Howard Hughes Medical Institute. <i>Undergraduate Science Education</i> (1.5M), Co-PI, 2006 United States Air Force. <i>Digital Image Forensics</i> (380K), 2006 National Science Foundation. <i>The Evolution of Mate Choice in Damselflies</i> (535K), Co-PI, 2005 Bureau of Justice Assistance. <i>Digital Image Forensics</i> (125K), 2005 Microsoft Corp. (275K), 2005, 2006, 2007, 2009 Adobe Systems, Inc. (110K), 2004, 2006, 2008 National Institute of Justice. <i>Digital Tampering and Secrets</i> (690K), 2003 National Institute of Justice. <i>Detecting Digital Tampering</i> (250K), 2000 National Science Foundation. <i>CAREER: Mixing and Separating Digital Images</i> (315K), 2000	

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 Dartmouth Scientist Says Oswald Rifle Photo Real in *Associated Press*, 11.5.09
 This Photo Is Lying to You in *Outside*, 9.1.09
 Dartmouth Researcher Roots Out Fake Photographs in *Valley News*, 8.30.09
 Professor: Photoshopping Person's Race Common on *NPR, All Things Considered*, 8.28.09
 Faked Photographs: Look, and Then Look Again in *New York Times*, 8.23.09
 Digital Forensics Susses Out True From False in *Computer Power User*, 6.1.09
 Are the Photos of Borneo's Monster Snake Real? in *Scientific American*, 2.20.09
 Photoshop Detective on *Studio 360*, 12.26.08
 Real? Or Photoshopped? 'Airbrushing' Run Amok in *ABC News*, 12.19.08
 The Digital Detective in *San Jose Mercury News*, 12.14.08
 The Authenticity of Bin Laden Tapes on *Chicago Public Radio's Worldview*, 12.8.08
 Did North Korea Fake Photos of Kim Jong-il? in *Scientific American*, 11.10.08
 The Camera Never Lies... or Does It? on *Radio New Zealand*, 8.17.08
 Photos as Weapons in *New York Times*, 8.11.08
 In A Photoshop Age, Can You Believe Your Eyes? on *NPR, Talk of the Nation*, 7.23.08
 Iran Doctors Missile of Photo Launch on *CNN*, 7.11.08
 Tricks in Tehran: on *Southern California Public Radio*, 7.10.08
 Detecting Digital Alterations in Media on *Vermont Public Radio*, 7.2.08
 Profile: Hany Farid on *NOVA, Science Now*, 6.25.08
 Tampered Photos on *PRI, The World*, 6.3.08
 Journals Find Fakery in Many Images in *Chronicle of Higher Education*, 5.29.08
 Digital Detectives on *NHPR, Word of Mouth*, 5.15.08
 Identifying Manipulated Images in *MIT Technology Review*, 3.16.08
 Researchers Look to Spot Photo Hoaxes in *The Associated Press*, 2.25.08
 Photo Tech Complicates Child-Porn Cases in *The Associated Press*, 2.25.08
 Digital Forensics: An Interview with Dr. Hany Farid in *The Digital Journalist*, 2.11.08
 An End to Picture Perfect Frauds in *Discovery Channel Magazine*, 2.1.08
 How Can You Tell if a Picture is Real? on *The Today Show*, 12.21.07
 Was Bin Laden's Last Video Faked? on *3WT Talk Radio*, 10.31.07
 Was Bin Laden's Last Video Faked? on *MSNBC*, 10.29.07
 Digital Forensics on *BBC, Night Waves*, 10.17.07

Digital Photo Manipulation on *KMOX 1120*, 10.15.07
 Proving That Seeing Shouldn't Always Be Believing in *New York Times*, 10.2.07
 Digital Detectives Discern Photoshop Fakery in *The Christian Science Monitor*, 8.29.07
 Restoring Trust in Photojournalism in *Black Star Rising*, 8.7.07
 Distorted Picture in *American Journalism Review*, 7.30.07
 Magazines' Extreme Touch-ups on *The Today Show*, 7.23.07
 Photo Tampering an Age-Old Practice in *The Chronicle of Higher Education*, 6.27.07
 Q&A: Hany Farid on Digital Manipulation in *Photo District News*, 6.1.07
 Great Shots That Never Happened in *Washington Post*, 4.15.07
 Computing Photographic Forgeries in *Science News*, 3.17.07
 Adobe Tackles Photo Forgeries in *Wired News*, 3.8.07
 Picture Imperfect in *Nature News*, 2.20.07
 Science Fights the Fakes in *MSNBC*, 2.20.07
 Surveillance: Video Evidence in *Newsweek International*, 1.15.07
 Detecting Video Forgeries in *MIT Technology Review*, 11.29.06
 Seeing is Believing? on *CBS News Sunday Morning*, 10.29.06
 True Lies in *Current Science*, 10.20.06
 True Renaissance by Computer in *Primo*, 9.2.06
 Are Fake Videos Next? in *News.com*, 9.11.06
 Digital Photo Manipulation, on *BBC Digital Planet*, 9.4.06
 Keeping It Real, in *The Economist*, 8.17.06
 Digital Art Authentication, on *NPR, 1370 Connection*, 8.11.06
 Program to Detect Crimes of Image Forgeries, in *Al-Ahram*, 3.19.06
 Photoshop Fakers, in *Now Toronto*, 3.15.06
 The Hunt for Online Criminals in *Mass High Tech*, 2.20.06
 Detecting Fraud in Journals in *The Scientist*, 2.10.06
 A Digital Life on *CNN*, 2.2.06
 Should Journals Police Scientific Fraud? in *Nature News*, 2.2.06
 Smoking Out Photo Hoaxes in *News.com*, 1.31.06
 Image Check for Scientific Journals in *Der Spiegel*, 1.30.06
 It May Look Authentic; Here's How to Tell It Isn't in *New York Times*, 1.24.06
 Technology Seen Abetting Manipulation of Research in *Boston Globe*, 1.10.06
 Can Photos be Trusted in *Popular Science*, 9.1.05
 Fakes, Frauds, and Fake Fakers in *ARTNews*, 6.1.05
 Spotting a Digital Hoax on *The Discovery Channel*, 3.16.05
 Digital Detectives Reveal Art Forgeries in *Computing in Science & Engineering*, 3.1.05
 In The Photoshop Era, It's Harder To Trust Your Eyes in *USA Today*, 2.2.05
 Seeing is No Longer Believing in *The Christian Science Monitor*, 2.2.05
 Professors Who Are Changing the World in *New Hampshire Magazine*, 2.1.05
 What Lies Beneath in *Art & Antiques*, 1.27.05
 Photoshop Sleuths in *MIT Technology Review*, 1.17.05
 Computers Increasingly Used in Crimes on *WMUR TV News*, 12.16.04
 Art Forgeries (with John Myatt) on *BBC World Service*, 12.15.04
 Digital Forensics on *NHPR, Front Porch*, 12.14.04
 Debunking Photoshop Fakery in *New York Times (Year in Ideas)*, 12.12.04
 Digital Art Authentication, in *ABC News, Australian Broadcasting Corporation, BBC Radio 4, BBC 5 Live, BBC World Service, Boston Globe, Baltimore Sun, CBC News, Charlotte Observer, Chicago Sun Times, Chicago Tribune, China Post, CNN, Jamaica Observer, Kansas City Star, Concord Monitor, Economist, Miami Herald, MSNBC, National Geographic, Nature, New Scientist, Newsday, Newsweek, New Zealand Herald, Philadelphia Inquirer, Radio Arthur, Rapid City Journal, Richmond Times, San Jose Mercury News, ScienCentral News, Science Magazine, Science News, Science Now, AAAS Science Update, Scientific American, Seattle Post Intelligencer, The Australian, The Globe and Mail, Times UK, Valley News, Voice of America, Washington Post, WCAX News, Wired News, and Yahoo News*, 11.23.04-11.25.04
 Detecting Tampering in a Digital Photo on *Discoveries+Breakthroughs*, 10.26.04

Algorithm Detects Non-Watermarked Digital Forgeries in *Laser Focus World*, 10.1.04
 What You See Is What You Question in *Computer Power User*, 10.1.04
 Is It Real or Is It Photoshopped in *Discover Magazine*, 9.27.04
 New Algorithm Foils Digital Forgers in *Yahoo! News*, 8.9.04
 Doctored Digital Images on *NPR, Future Tense*, 7.27.04
 A New Flavor of Digital Truth Serum, in *New York Times*, 7.22.04
 Investigating Digital Images in *ACM TechNews, California Computer News, Haaretz, Justnet, OE Magazine, Online Security, PhysOrg, Science Blog, ScienceDaily, Slashdot, Topix.net, and U.S. Politics Today*, 7.1.04
 Naked Eye Can't Tell If It's a Lie in *Poughkeepsie Journal*, 5.1.04
 New Mathematical Algorithms Might Help Diagnose Cancer *The Breast Cancer Newsletter, HPC Wire, Medical News Today, and ScienceDaily*, 2.4.04
 Is Seeing Believing in *The Telegraph*, 9.17.03
 Is Seeing Believing on *BBC News*, 9.8.03
 History Undercover with Arthur Kent: Cyberterrorism on *The History Channel*, 7.26.03
 Mapping with Math in *BBC News*, 12.3.02
 Mapping with Math in *The Geological Society, Innovations Report, OE Mag., ScienceDaily, and UPI*, 12.2.02
 Molyneux Problem, in *Strange But True*, 7.17.02
 Digital Tours of Murals, in *The Chronicle of Higher Education*, 7.9.02
 Hidden Messages appearing on *WCAX TV News*, 10.19.01
 Statistics Sniff Out Secrets appearing in *Technology Research News*, 9.26.01
 Digital Secrecy appearing on *WNNE TV News*, 8.15.01
 Digital Secrecy in *GlobalTechnoScan, Popular Technologies, and ScienceDaily*, 8.10.01

INVITED TALKS

Photo Retouching, Information Hiding (keynote), 5.12
 Photo Forensics, Stanford University, 1.12
 Ethics and Forensics in the Age of Photoshop Photojournalism, Massachusetts Institute of Technology, 4.11
 Photo Forensics, National Geographic, 1.11
 Photo Forensics: Lighting and Shadows, Harvard University, 9.10
 Photo Forensics, Applied Perception in Graphics & Visualization (keynote), 7.10
 Limitations of Visually-Based Image Forensics, Massachusetts Institute of Technology, 4.10
 Photo Forensics, Massachusetts Institute of Technology, 4.10
 Digital Image Forensics, Yale University, 4.10
 Digital Image Forensics, IDGA Biometrics for National Security and Defense, 3.10
 Visually-Based Image Forensics, IDGA Biometrics for National Security and Defense, 3.10
 Photo Forensics, Smith-Kettlewell Eye Research Institute, 2.10
 Digital Image Forensics, Adobe Inc, 1.10
 Digital Image Forensics, University of Rochester, 11.09
 On the Limitations of Visually-Based Image Forensics, University of Rochester, 11.09
 Photo Forensics, Brown University, 10.09
 Digital Forensics, Biometrics: Theory, Applications and Systems (keynote), 9.09
 Digital Tampering and Forensics, University of California, San Diego, 4.09
 Image Forensics, University of California, Berkeley, 3.09
 Estimating and Modeling Complex Lighting Environments, University of Pennsylvania, 10.08
 Digital Tampering and Forensics, National Institute of Standards, 10.08
 Digital Tampering and Forensics, University of Massachusetts, Amherst, 10.08
 Digital Image Forensics, American Society of Clinical Radiologists, 9.08
 Digital Tampering and Forensics, SUNY Albany, 9.08
 Digital Tampering and Forensics, Electronic Imaging Symposium (plenary talk), 1.08
 Digital Image Forensics, The National Academies, 1.08
 Digital Image Forensics, IBM Almaden, 11.07
 Digital Image Forensics, University of California, Berkeley, 11.07

A Digital Technique for Art Authentication, Harvard University Art Museum, 10.07
Digital Image Forensics, Google, 4.07
Digital Image Forensics, Foveon Inc., 4.07
Exposing Digital Forgeries from Inconsistencies in Lighting, Carnegie Mellon University, 3.07
Digital Forensics, American Association for the Advancement of Science, 2.07
Digital Image Forensics, The Associated Press, 2.07
Exposing Digital Forgeries from Inconsistencies in Lighting, University of Pennsylvania, 2.07
Digital Tampering in the Media, Politics and Law, University of Pennsylvania, 2.07
Digital Image Forensics, Central Intelligence Agency, 12.06
From Photons to Pixels to Photoshop, Project Safe Childhood Conference, 12.06
Digital Image Forensics, Stanford University, 10.06
From Photons to Pixels to Photoshop, Crimes Against Children Conference, 8.06
Digital Image Forensics, Microsoft Corp., 6.06
A Digital Technique for Art Authentication, Rochester Memorial Art Gallery, 5.06
Digital Image Forensics, Eastman Kodak, 5.06
Digital Image Forensics, Google, 5.06
Digital Image Forensics, University of California, Davis, 5.06
Digital Image Forensics, National Academy of Sciences, 5.06
A Digital Technique for Art Authentication, San Diego Museum of Art, 3.06
A Picture is Worth a Thousand Lies, Dartmouth College, 2.06
Digital Image Forensics, Ricoh Innovations, 11.05
Energy vs. Synchrony in Perceptual Grouping, University of California, San Diego, 11.05
From Photons to Pixels to Photoshop, Delaware Department of Justice, 9.05
From Photons to Pixels to Photoshop, High Tech. Crime Investigation Assoc., 8.05
Digital Image Forensics, National Association of Attorneys General, 6.05
How Realistic is Photorealistic?, University of California, Santa Cruz, 6.05
Digital Image Forensics, University of California, Berkeley, 5.05
Digital Image Forensics, University of California, Santa Cruz, 5.05
Digital Image Forensics, National Association of Attorneys General, 5.05
Digital Image Forensics, Adobe Systems, 4.05
Digital Image Forensics, Office of Research Integrity, 1.05
Digital Image Forensics, University of New Hampshire, 12.04
Digital Image Forensics, New Hampshire Cyber Crime Network, 12.04
Digital Image Forensics, Leslie Center for the Humanities, Dartmouth College, 11.04
Reconstructing Ancient Egyptian Tombs, Society for Imaging Science and Tech., 10.04
Digital Image Forensics, Adobe Systems, 10.04
Digital Image Forensics, National Association of Attorneys General, 9.04
Digital Image Forensics, University of Pennsylvania, 7.04
How Realistic is Photorealistic?, University of Illinois, 4.04
Universal Steganalysis, Central Intelligence Agency, 2.04
How Realistic is Photorealistic?, The Salk Institute, 1.04
Grouping by Temporal Synchrony?, The Salk Institute, 1.04
How Realistic is Photorealistic?, Stevens Institute of Technology, 12.03
How Realistic is Photorealistic?, Massachusetts Institute of Technology, 11.03
How Realistic is Photorealistic?, Harvard University, 11.03
How Realistic is Photorealistic?, University of Chicago, 11.03
How Realistic is Photorealistic?, University of Maryland, 11.03
Grouping by Temporal Synchrony?, University of Chicago, 10.03
Mixing and Unmixing Digital Images, Harvard University, 10.02
Temporal Synchrony in Perceptual Grouping?, University of Rochester, 9.02
Mixing and Unmixing Digital Images, New York University, 4.02
Mixing and Unmixing Digital Images, University of Pennsylvania, 3.02
Digital Tampering, Washington University, St. Louis, 1.02
Digital Secrets, Boston University, 12.01

Grouping by Temporal Synchrony, Harvard University, 11.01
 Blind Removal of Image Non-Linearities, Columbia University, 11.01
 Blind Removal of Image Non-Linearities, Massachusetts Institute of Technology, 10.01
 Grouping by Temporal Synchrony, New York University, 10.01
 Grouping by Temporal Synchrony, Massachusetts Institute of Technology, 3.01
 Grouping by Temporal Synchrony, University of Pennsylvania, 3.01
 Grouping by Temporal Synchrony, Boston University, 2.01
 Blind Removal of Image Non-Linearities, University of Pennsylvania, 3.00
 Digital Image Separation, George Mason University, 3.00
 Grouping in Temporally Synchronous Displays, Dartmouth College, 12.99
 Separating Digital Images, Brooklyn Polytechnic University, 3.99
 Separating Digital Images, Dartmouth College, 3.99
 ICA for Separating Images, Massachusetts Institute of Technology, 2.99
 Separating Images, University of Pennsylvania, 10.98
 Monocular Stereo, Polaroid Inc, 7.98
 Digital Image Enhancement, Williams College, 4.98
 Monocular Stereo, Massachusetts Institute of Technology, 3.98
 Range Estimation by Optical Differentiation, University of California, Berkeley, 3.97
 A Differential Optical Range Camera, Sensar Inc., 11.96
 Direct Differential Range Estimation, Columbia University, 5.96
 Steerable Filters for Low-level Image Processing, SUNY at Albany, 11.95
 3-D Scene Reconstruction for Telepresence, UNC, Chapel Hill, 6.94

MENTOR Summer Robot Camp, Dartmouth College, 2004-2007
 Gates Millennium Scholarship, Dartmouth College, 2000
 Mellon Minority Scholarship, Dartmouth College, 2000
 Math Circle/Math Camp, 1998-2001, 2004
 NASA Quality Education for Minorities, U. of Penn, 1995-1996
 Philadelphia Math and Science Outreach, U. of Penn, 1994-1996

ASSOCIATE EDITOR IEEE Transactions on Information Forensics and Security, 2005-2008

PROGRAM International Conference on Computational Photography, 2012
 COMMITTEE Information Hiding, 2010
 Media Security and Forensics (Electronic Imaging), 2009, 2010, 2011
 Technical Advisory Board for Berkman's Internet Safety Task Force, 2008
 Vision of the Unseen (CVPR Workshop), 2008
 Statistical Learning in Computer Vision (ECCV Workshop), 2004
 American Association for Artificial Intelligence (Vision/Perception), 2004
 Statistical Analysis in Computer Vision (CVPR Workshop), 2003

REVIEWER NSF review panel (ITR Medium), 2003
 NSF review panel (CAREER: RHA/CV), 2000, 2002, 2003
 NSF review panel (RHA/CV), 2000
 American Association for Artificial Intelligence (AAAI), Computer Analysis of Images and Patterns (CAIP), Computer Vision and Pattern, Recognition (CVPR), Electronics Letters, European Conference on Computer Vision (ECCV), IEEE Transactions on Image Processing, IEEE Transactions on Multimedia, IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Signal Processing, IEEE Security and Privacy, Information Hiding, International Conference on Computer Vision (ICCV), International Journal of Computer Vision, International Journal of Imaging Systems and Technology, Journal of Cognitive Neuroscience, Journal of the Optical Society of America, Journal of Visual Communication and Image Representation, Medical Physics, Perception, Proceedings of the Royal Society: Biological Sciences, SIGGRAPH, Vision and Applications, Vision Research

STUDENTS
Valentina Conotter (2011), Computer Science and University of Trento, Ph.D. co-adviser
Daniel Hopkins, '10, Mathematics, senior research adviser
Kimo Johnson (2007), Computer Science, Ph.D. adviser
Eric Kee, Computer Science, Ph.D. adviser
Jethro Rothe-Kushel '03, Religion, senior research adviser
Siwei Lyu (2005), Computer Science, Ph.D. adviser
David Martin '00, Computer Science, senior thesis adviser
Kiley McEvoy, '06, Engineering, senior research adviser
Joseph Pechter '04, Computer Science, senior thesis adviser
William Pechter '04, Computer Science, senior thesis adviser
Senthil Periaswamy (2003), Computer Science, Ph.D. adviser
Andrew Pierce '02, Mathematics, senior research adviser
Alin Popescu (2005), Computer Science, Ph.D. adviser
Nelson Rosa '06, Engineering, senior research adviser
Katherine Sherwin '01, Engineering/Physics, senior research adviser
Hai Sun (2004), Engineering, Ph.D. co-adviser
Weihong Wang (2009), Computer Science, Ph.D. adviser

TEACHING
Digital Forensics, University of Trento, Italy, Spring 2011
Numerical and Computational Tools for Applied Science, CS 36/136, Summer 2008
Concepts in Computing, CS 4, Summer 2008
Numerical and Computational Tools for Applied Science, CS 36/136, Summer 2007
Concepts in Computing, CS 4, Summer 2007
Concepts in Computing, CS 4, Winter 2006
Numerical Methods in Computer Vision, CS 188/88, Fall 2004
Concepts in Computing, CS 4, Summer 2003
Concepts in Computing, CS 4, Summer 2002
Data Structures and Programming, CS 15, Winter 2002
Data Structures and Programming, CS 15, Fall 2001
Numerical Linear Algebra, CS106, Spring 2001
Data Structures and Programming, CS 15, Winter 2001
Data Structures and Programming, CS 15, Fall 2000
Fundamentals of Image Processing, CS 188/88, Spring 2000
Programming Languages, CS 68, Winter 2000
Data Structures and Programming, CS 15, Fall 1999

COLLEGE
COMMITTEES
Associate Chair, 2004-2009
Ph.D. Adviser, 2004-2006
Steering Committee, Neuroscience Major, 2004-2008
Director Search, Neukom Institute for Computational Science, 2005
HHMI Undergraduate Biological Sciences Education Proposal, 2005
Green Grid Computing, 2004-2005
Computer Science Building Expansion, 2003-2005
Faculty Search, Thayer School of Engineering, 2004
Department Web Master, 1999-2004
Faculty Recruiting, 2003, 2010, 2011
Ph.D. Graduate Admissions 2001-2003, 2010
Associate Director Search, ISTS, 2002
M.D./Ph.D. Admission, 2001