Hany Farid

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APPOINTMENTS	**University of California, Berkeley**	**2019 – present**
	Professor, School of Information	
	Professor, Electrical Engineering and Computer Sciences	
	Member, Berkeley Artificial Intelligence Research Lab	
	Member, Center for Innovation in Vision and Optics	
	Member, Vision Science Program	
	Senior Faculty Advisor, Center for Long-Term Cybersecurity	
	Dartmouth College, Department of Computer Science	**1999 – 2019**
	Albert Bradley 1915 Third Century Professor	*2016 – 2019*
	Department Chair	*2015 – 2018*
	Professor	*2011 – 2016*
	William H. Neukom 1964 Distinguished Professor of Computational Science	*2008 – 2011*
	David T. McLaughlin Distinguished Professor of Computer Science	*2007 – 2008*
	Professor	*2006 – 2007*
	Associate Professor	*2004 – 2006*
	Assistant Professor	*1999 – 2004*
	Dartmouth College, Tuck School of Business	**2016 – 2019**
	Adjunct Professor of Business Administration	
	Dartmouth College, Neukom Institute for Computational Science	**2008 – 2011**
	Director	
PROFESSIONAL	**Coalition for Content Provenance and Authenticity**	**2021 – present**
	Steering Committee	
	Content Authenticity Initiative	**2023 – present**
	Advisor	
	Counter Extremism Project	**2016 – present**
	Senior Advisor	
	Cyber Civil Rights Initiative	**2019 – present**
	Board of Directors	
	GetReal Labs	**2022 – present**
	Co-founder and Chief Science Officer	
	Global Disinformation Index	**2019 – present**
	Technical Advisory Board	
	Human Rights Center, University of California, Berkeley, School of Law	**2019 – present**
	Advisory Board	
	LinkedIn	**2022 – present**
	Scholar	
	Metaphysic	**2023 – present**
	Scientific Advisory Board	
	GetReal Labs	**2022 – present**
	Chief Science Officer	
	Truepic, Inc.	**2018 – present**
	Senior Advisor	
	Fourandsix Technologies, Inc.	**2011 – 2018**
	Co-founder & Chief Technology Officer	
	TikTok, USA	**2020 – 2022**
	Content Advisory Council	
EDUCATION	**Massachusetts Institute of Technology**	**1997 – 1999**
	Postdoctoral Fellow, Brain and Cognitive Sciences (advisor: Ted Adelson)	
	University of Pennsylvania	**1993 – 1997**
	Ph.D., Computer Science (advisor: Eero Simoncelli)	
	State University of New York at Albany	**1990 – 1992**
	M.S., Computer Science	
	University of Rochester	**1984 – 1988**
	B.S., Computer Science with Applied Mathematics	

PUBLICATIONS (IMPACT)	h-index=76; total citations=24,444; i1000-index=4; i500-index=12; i250-index=27; i100-index=63; i10-index=147.[1]

PUBLICATIONS (BOOK)	H. Farid. Fake Photos, MIT Press, Essential Knowledge Series, 2019.
	H. Farid. Photo Forensics, MIT Press, 2016.

PUBLICATIONS (JOURNAL)	E. Booth, J. Lee, M.A. Rizoiu, and H. Farid. Conspiracy, Misinformation, Radicalisation: Understanding the online pathway to indoctrination and opportunities for intervention. *Journal of Sociology*, 2024.

M. Boháček and H. Farid. The Making of an AI News Anchor – and its Implications. *Proceedings of the National Academy of Sciences*, 121(1), 2024.

E.A. Cooper, R. Casati, H. Farid, and P. Cavanagh. The Art of the Float. *Journal of Vision*, 23(8):13, 2023.

Z. Epstein, A. Hertzmann, M. Akten, H. Farid, J. Fjeld, M.R. Frank, M. Groh, L. Herman, N. Leach, R. Mahari, A. Pentland, O. Russakovsky, H. Schroeder, and A. Smith. Art and the Science of Generative AI. *Science*, 380(6650):1110-1111, 2023.

S. Barrington and H. Farid. A Comparative Analysis of Human and AI Performance in Forensic Estimation of Physical Attributes. *Scientific Reports*, 13(4784), 2023.

M. Boháček and H. Farid. Protecting World Leaders Against Deep Fakes using Facial, Gestural, and Vocal Mannerisms. *Proceedings of the National Academy of Sciences*, 119(38), 2022.

H. Farid. Creating, Using, Misusing, and Detecting Deep Fakes. *Journal of Online Trust and Safety*, 1(4), 2022.

S.J. Nightingale and H. Farid. AI-Synthesized Faces are Indistinguishable from Real Faces and More Trustworthy. *Proceedings of the National Academy of Sciences*, 119(8), 2022.

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S.J. Nightingale, S. Agarwal, and H. Farid. Perceptual and Computational Detection of Face Morphing. *Journal of Vision*, 21(3):4, 2021.

J. Dressel and H. Farid.The Dangers of Risk Prediction in the Criminal Justice System. *MIT Case Studies in Social and Ethical Responsibilities of Computing*, February, 2021.

S.J. Nightingale and H. Farid. Assessing the Reliability of a Clothing-Based Forensic Identification. *Proceedings of the National Academy of Sciences*, 117(10):5176-5183, 2020.

S.J. Nightingale, K.A. Wade, H. Farid, and D.G. Watson. Can People Detect Errors in Shadows and Reflections? *Attention, Perception, & Psychophysics*, 81(8):2917-2943, 2019.

H. Farid. Image Forensics. *Annual Review of Vision Science*, 5(1):549-573, 2019.

H. Farid. Reining in Online Abuses. *Technology and Innovation*, 19(3):593-599, 2018.

J. Dressel and H. Farid. The Accuracy, Fairness, and Limits of Predicting Recidivism, *Science Advances*, 4(1):eaao5580, 2018.

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[1]h-index = largest number h such that h publications have at least h citations; iN-index = number of publications with at least N citations. Citation counts according to GoogleScholar as of August 2024.

B. Mader, M.S. Banks, and H. Farid. Identifying Computer-Generated Portraits: The Importance of Training and Incentives. *Perception*, 46(9):1062-1076, 2017.

K. Greenham, P. Lou, J.R. Puzey, G. Kumar, C. Arnevik, H. Farid, J. H. Willis, and C.R McClung. Geographic Variation of Plant Circadian Clock Function in Natural and Agricultural Settings. *Journal of Biological Rhythms*, 32(1):26-34, 2016.

M.J. Bravo and H. Farid. Observers Change their Target Template Based on Expected Context. *Attention, Perception, & Psychophysics*, 78(3):829-837, 2016.

O. Holmes, M.S. Banks, and H. Farid. Assessing and Improving the Identification of Computer Generated Portraits. *ACM Transactions on Applied Perception*, 13(2):7:1-7:12, 2016.

E.A. Cooper and H. Farid. Does the Sun Revolve Around the Earth? A Comparison between the General Public and On-line Survey Respondents in Basic Scientific Knowledge. *Public Understanding of Science*, 25(2):146-153, 2016.

S. Pittala, E. Whiting, and H. Farid. A 3-D Stability Analysis of Lee Harvey Oswald in the Backyard Photo. *Journal of Digital Forensics, Security and Law*, 10(3):87-98, 2015.

K. Greenham, P. Lou, S. E. Remsen, H. Farid, and C.R McClung. TRiP: Tracking Rhythms in Plants, an automated leaf movement analysis program for circadian period estimation. *Plant Methods*, 11(33):1-11, 2015.

E. Kee, J. O'Brien, and H. Farid. Exposing Photo Manipulation from Shading and Shadows. *ACM Transactions on Graphics*, 33(5):165:1-165:21, 2014.

M. Bravo and H. Farid. Informative Cues Can Slow Search: The cost of matching a specific template. *Perception*, 76(1):32-39, 2014.

E. Kee, J. O'Brien, and H. Farid. Exposing Photo Manipulation with Inconsistent Shadows. *ACM Transactions on Graphics*, 32(4):28:1-12, 2013 (presented at SIGGRAPH).

D.T. Bolger, T.A. Morrison, B. Vance, D. Lee, and H. Farid. A Computer-Assisted System for Photographic Mark-Recapture Analysis. *Methods in Ecology and Evolution*, 3(5):813-822, 2012.

J. O'Brien and H. Farid. Exposing Photo Manipulation with Inconsistent Reflections. *ACM Transactions on Graphics*, 31(1):4:1-4:11, 2012 (presented at SIGGRAPH).

H. Farid and M.J. Bravo. Perceptual Discrimination of Computer Generated and Photographic Faces. *Digital Investigation*, 8:226-235, 2012.

M.J. Bravo and H. Farid. Task Demands Determine the Specificity of the Search Template. *Attention, Perception, & Psychophysics*, 74(1):124-131, 2012.

V. Conotter, J. O'Brien, and H. Farid. Exposing Digital Forgeries in Ballistic Motion. *IEEE Transactions on Information Forensics and Security*, 7(1):283-296, 2012.

E. Kee and H. Farid. A Perceptual Metric for Photo Retouching. *Proceedings of the National Academy of Sciences*, 108(50):19907-19912, 2011.

E. Kee, M. K. Johnson, and H. Farid. Digital Image Authentication from JPEG Headers. *IEEE Transactions on Information Forensics and Security*, 6(3):1066-1075, 2011.

H. Farid. The Lee Harvey Oswald Backyard Photos: Real or Fake? *Perception*, 38(11):1731-1734, 2009.

H. Farid. A Survey of Image Forgery Detection. *IEEE Signal Processing Magazine*, 26(2):16-25, 2009.

L. Shen, H. Farid and M.A. McPeek. Modeling 3-Dimensional Morphological Structures using Spherical Harmonics. *Evolution*, 63(4):1003-1016, 2009.

H. Farid. Exposing Digital Forgeries from JPEG Ghosts. *IEEE Transactions on Information Forensics and Security*, 4(1):154-160, 2009.

M.J. Bravo and H. Farid. The Specificity of the Search Template. *Journal of Vision*, 9(1):34, 1-9, 2009.

M.A. McPeek, L. Shen and H. Farid. The Correlated Evolution of 3-Dimensional Reproductive Structure Between Male and Female Damselflies. *Evolution*, 63(1):73-83, 2009.

M.A. McPeek, L. Shen, J.Z. Torrey and H. Farid. The Tempo and Mode of 3-Dimensional Morphological Evolution in Male Reproductive Structures. *American Naturalist*, 171(5):E158-E178, 2008.

M.J. Bravo and H. Farid. A Scale Invariant Measure of Image Clutter. *Journal of Vision*, 8(1):1-9, 2008.

M.K. Johnson and H. Farid. Exposing Digital Forgeries in Complex Lighting Environments. *IEEE Transactions on Information Forensics and Security*, 2(3):450-461, 2007.

W. Wang and H. Farid. Exposing Digital Forgeries in Interlaced and De-Interlaced Video. *IEEE Transactions on Information Forensics and Security*, 2(3):438-449, 2007.

H. Farid and J. Kosecka. Estimating Planar Surface Orientation Using Bispectral Analysis. *IEEE Transactions on Image Processing*, 16(8):2154-2160, 2007.

M.J. Bravo and H. Farid. The Depth of Distractor Processing in Search with Clutter. *Perception*, 36(6):821-829, 2007.

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D. Rockmore, S. Lyu and H. Farid. A Digital Technique for Authentication in the Visual Arts. *International Foundation for Art Research*, (8)2:12-23, 2006.

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S. Periaswamy and H. Farid. Medical Image Registration with Partial Data. *Medical Image Analysis*, 10:452-464, 2006.

A.C. Popescu and H. Farid. Exposing Digital Forgeries in Color Filter Array Interpolated Images. *IEEE Transactions on Signal Processing*, 53(10):3948-3959, 2005.

H. Sun, K.E. Lunn, H. Farid, Z. Wu, D.W. Roberts, A. Hartov and K.D. Paulsen. Stereopsis-Guided Brain Shift Compensation. *IEEE Transactions on Medical Imaging*, 24(8):1039-1052, 2005.

S. Lyu and H. Farid. How Realistic is Photorealistic? *IEEE Transactions on Signal Processing*, 53(2):845-850, 2005.

A.C. Popescu and H. Farid. Exposing Digital Forgeries by Detecting Traces of Re-sampling. *IEEE Transactions on Signal Processing*, 53(2):758-767, 2005.

H. Sun, D.W. Roberts, H. Farid, Z. Wu, A. Hartov and K.D. Paulsen. Cortical Surface Tracking Using a Stereoscopic Operating Microscope. *Neurosurgery*, 56:86-97, 2005.

S. Lyu, D. Rockmore and H. Farid. A Digital Technique for Art Authentication. *Proceedings of the National Academy of Sciences*, 101(49):17006-17010, 2004.

M.J. Bravo and H. Farid. Search For a Category Target in Clutter. *Perception*, 33:643-652, 2004.

H. Farid and E.P. Simoncelli. Differentiation of Discrete Multi-Dimensional Signals. *IEEE Transactions on Image Processing*, 13(4):496-508, 2004.

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H. Sun, H. Farid, D.W. Roberts, K. Rick, A. Hartov, and K.D. Paulsen. A Non-Contacting 3-D Digitizer for Use in Image-Guided Neurosurgery. *Steroetactic and Functional Neurosurgery*, 80(1-4):120-124, 2003.

R.H. Lilien, H. Farid and B.R. Donald. Probabilistic Disease Classification of Expression-Dependent Proteomic Data from Mass Spectrometry of Human Serum. *Journal of Computational Biology*, 10(6):925-946, 2003.

S. Periaswamy and H. Farid. Elastic Registration in the Presence of Intensity Variations. *IEEE Transactions on Medical Imaging*, 22(7):865-874, 2003.

M.J. Bravo and H. Farid. Object Segmentation by Top-Down Processes. *Visual Cognition*, 10(4):471-491, 2003.

A. Heimsath and H. Farid. Hillslope Topography from Unconstrained Photographs. *Mathematical Geology*, 34(8):929-952, 2002.

H. Farid. Temporal Synchrony in Perceptual Grouping: A Critique. *Trends in Cognitive Sciences*, 6(7):284-288, 2002.

H. Farid and E.H. Adelson. Synchrony Does Not Promote Grouping in Temporally Structured Displays. *Nature Neuroscience*, 4(9):875-876, 2001.

H. Farid and A.C. Popescu. Blind Removal of Lens Distortions. *Journal of the Optical Society of America*, 18(9):2072-2078, 2001.

H. Farid. Blind Inverse Gamma Correction. *IEEE Transactions on Image Processing*, 10(10):1428-1433, 2001.

M.J. Bravo and H. Farid. Texture Perception on Folded Surfaces. *Perception*, 30(7):819-832, 2001.

R. van Ee, B. Anderson, and H. Farid. Occlusion Junctions do not Improve Stereoacuity. *Spatial Vision*, 15(1):45-49, 2001.

M.J. Bravo and H. Farid. Effects of 3D Structure on Motion Segmentation. *Vision Research*, 40(6):695-704, 2000.

X. Jiang, H. Farid, E. Pistor and R. S. Farid. A New Approach to the Design of Uniquely Folded Thermally Stable Proteins. *Protein Science*, 9:403-416, 2000.

E.H. Adelson and H. Farid. Filtering Reveals Form in Temporally Structured Displays. *Science*, 286:2231, 1999.

H. Farid and E.H. Adelson. Separating Reflections from Images by use of Independent Components Analysis. *Journal of the Optical Society of America,* 16(9):2136-2145, 1999.

H. Farid and E.P. Simoncelli. Range Estimation by Optical Differentiation. *Journal of the Optical Society of America,* 15(7): 1777-1786, 1998.

E.P. Simoncelli and H. Farid. Steerable Wedge Filters for Local Orientation Analysis. *IEEE Transactions on Image Processing,* 5(9):1377-1382, 1996.

P.S. Shenkin, H. Farid and J.S. Fetrow. Prediction and Evaluation of Side-chain Conformations for Protein Backbone Structures. *Proteins: Structure, Function and Genetics,* 26:323-352, 1996.

PUBLICATIONS
(MAGAZINE)

H. Farid. How to Detect Faked Photos. *American Scientist*, March-April, 2017.

H. Farid. Seeing Is Not Believing. *IEEE Spectrum*, 46(8):44-48, 2009.

H. Farid. Digital Image Forensics. *Scientific American*, 298(6):66-71, 2008.

H. Farid. Digital Doctoring: How to tell the real from the fake. *Significance*, 3(4):162-166, 2006.

H. Farid. Digital Doctoring: How to tell the real from the fake. *Digitális Fotó Magazin*, 9:100-103, 2006.

H. Farid. Is Seeing Believing. *New Scientist*, 179(2411):38-41, 2003.

H. Farid and S. Farid. Unfolding Sennedjem's Tomb. *KMT: A Modern Journal of Ancient Egypt*, 12(1):46-59, 2001.

PUBLICATIONS
(BOOK CHAPTERS)

H. Farid. Artificial Intelligence: A Primer for Legal Practitioners. In *Artificial Intelligence: Legal Issues, Policy, and Practical Strategies*, American Bar Association, 2024.

H. Farid. AI-Fueled Ignorance, Confusion, and Profit. In *Agnotology II*, Stanford University Press, 2024.

H. Farid. JPEG: The Unsung Hero in the Digital Revolution. In *You Are Not Expected to Understand This: How 26 Lines of Code Changed the World*, Princeton University Press, 2022.

H. Farid. Photo Fakery and Forensics. In *Advances in Computers*, Volume 77, Academic Press, 2009.

H. Farid. Digital Doctoring: can we trust photographs? In *Deception: From Ancient Empires to Internet Dating*, Stanford University Press, 2009.

PUBLICATIONS
(REFEREED
CONFERENCE
PAPER)

G.J.A. Porcile, J. Gindi, S. Mundra, J.R. Verbus, and H. Farid, Finding AI-Generated Faces in the Wild, *Workshop on Media Forensics at CVPR*, 2024.

M. Bohacek and H. Farid. Lost in Translation: Lip-Sync Deepfake Detection from Audio-Video Mismatch, *Workshop on Media Forensics at CVPR*, 2024.

J. Norman and H. Farid. An Investigation into the Impact of AI-Powered Image Enhancement on Forensic Facial Recognition. *Workshop on Media Forensics at CVPR*, 2024.

S. Barrington, R. Barua, G. Koorma, and Hany Farid. Single and Multi-Speaker Cloned Voice Detection: From Perceptual to Learned Features, *Workshop on Image Forensics and Security*, Nuremberg, Germany, 2023.

M. Boháček and H. Farid. A Geometric and Photometric Exploration of GAN and Diffusion Synthesized Faces, *Workshop on Media Forensics at CVPR*, 2023.

S. Mundra, G.J.A. Porcile, S. Marvaniya, J.R. Verbus, and H. Farid. Exposing GAN-Generated Profile Photos from Compact Embeddings, *Workshop on Media Forensics at CVPR*, 2023.

N. Galstyan, J. McCauley, H. Farid, S. Ratnasamy, and S. Shenker. Global Content Revocation on the Internet: A Case Study in Technology Ecosystem Transformation, *20th ACM Workshop on Hot Topics in Networks*, Austin, TX, 2022.

B. Levine, J.J. Kumar, H. Farid, E. Dixon, and E. Ikponmwoba. Indications of Child Sexual Abuse Revealed in App Store Reviews, *Workshop on Kids' Online Privacy and Safety at SOUPS*, 2022.

C. Gerstner and H. Farid. Detecting Real-Time Deep-Fake Videos Using Active Illumination, *Workshop on Media Forensics at CVPR*, 2022.

N. Thakkar, G. Pavlakos, and H. Farid. The Reliability of Forensic Body-Shape Identification, *Workshop on Media Forensics at CVPR*, 2022.

N. Thakkar and H. Farid. On the Feasibility of 3D Model-Based Forensic Height and Weight Estimation, *Workshop on Media Forensics at CVPR*, 2021.

S. Agarwal and H. Farid. Detecting Deep-Fake Videos from Aural and Oral Dynamics, *Workshop on Media Forensics at CVPR*, 2021.

S. Agarwal, H. Farid, T. El-Gaaly, and S. Lim. Detecting Deep-Fake Videos from Appearance and Behavior, *IEEE Workshop on Information Forensics and Security*, 2020.

S. Agarwal, H. Farid, O. Fried, and M. Agrawala. Detecting Deep-Fake Videos from Phoneme-Viseme Mismatches, *Workshop on Media Forensics at CVPR*, 2020.

N. Carlini and H. Farid Evading Deepfake-Image Detectors with White- and Black-Box Attacks, *Workshop on Media Forensics at CVPR*, 2020.

S. Agarwal and H. Farid. Photo Forensics from Rounding Artifacts, *ACM Workshop on Information Hiding and Multimedia Security*, Denver CO, 2020.

S. Agarwal, H. Farid, Y. Gu, M. He, K. Nagano, and H. Li. Protecting World Leaders Against Deep Fakes, *Workshop on Media Forensics at CVPR*, Long Beach, CA, 2019.

E. A. AlBadawy, S. Lyu, and H. Farid. Detecting AI-Synthesized Speech Using Bispectral Analysis. *Workshop on Media Forensics at CVPR*, Long Beach, CA, 2019.

P. Singh and H. Farid. Robust Homomorphic Image Hashing. *Workshop on Media Forensics at CVPR*, Long Beach, CA, 2019.

B. Lorch, S. Agarwal, and H. Farid. Forensic Reconstruction of Severely Degraded License Plates. *IS&T Electronic Imaging*, San Francisco, CA, 2019.

W. Fan, S. Agarwal, and H. Farid. Rebroadcast Attacks: Defenses, Reattacks, and Redefenses. *European Signal Processing Conference*, Rome, Italy, 2018.

S. Agarwal, W. Fan, and H. Farid. A Diverse Large-Scale Dataset for Evaluating Rebroadcast Attacks. *IEEE International Conference on Acoustics, Speech and Signal Processing*, Calgary, Alberta, Canada, 2018.

S. Agarwal and H. Farid. Photo Forensics from JPEG Dimples. *IEEE Workshop on Image Forensics and Security*, Rennes, France, 2017.

S. Agarwal, D. Tran, L. Torresani, and H. Farid. Deciphering Severely Degraded License Plates. *SPIE Symposium on Electronic Imaging*, San Francisco, CA 2017.

T. Carvalho, H. Farid, and E. Kee. Exposing Photo Manipulation From User-Guided 3-D Lighting Analysis. *SPIE Symposium on Electronic Imaging*, San Francisco, CA, 2015.

V. Conotter, E. Bodnari, G. Boato, and H. Farid. Physiologically-based Detection of Computer Generated Faces in Video. *International Conference on Image Processing*, Paris, France, 2014.

M. Kirchner, P. Winkler and H. Farid. Impeding Forgers at Photo Inception. *SPIE Symposium on Electronic Imaging*, San Francisco, CA, 2013.

E. Kee and H. Farid. Exposing Digital Forgeries from 3-D Lighting Environments. *IEEE Workshop*

on Information Forensics and Security, Seattle, WA, 2010.

V. Conotter, G. Boato and H. Farid. Detecting Photo Manipulation on Signs and Billboards. *International Conference on Image Processing*, Hong Kong, 2010.

H. Malik and H. Farid. Audio Forensics from Acoustic Reverberation. *International Conference on Acoustics, Speech, and Signal Processing*, Dallas, TX, 2010.

E. Kee and H. Farid. Digital Image Authentication from Thumbnails. *SPIE Symposium on Electronic Imaging*, San Jose, CA, 2010.

H. Farid and M.J. Bravo. Image Forensic Analyses that Elude the Human Visual System. *SPIE Symposium on Electronic Imaging*, San Jose, CA, 2010.

W. Wang and H. Farid. Exposing Digital Forgeries in Video by Detecting Double Quantization. *ACM Multimedia and Security Workshop*, Princeton, NJ, 2009.

E. Kee and H. Farid. Printer Profiling for Forensics and Ballistics. *ACM Multimedia and Security Workshop*, Oxford, UK, 2008.

W. Wang and H. Farid. Detecting Re-Projected Video. *10th International Workshop on Information Hiding*, Santa Barbara, CA, 2008.

M.K. Johnson and H. Farid. Detecting Photographic Composites of People. *6th International Workshop on Digital Watermarking*, Guangzhou, China, 2007.

W. Wang and H. Farid. Exposing Digital Forgeries in Video by Detecting Duplication. *ACM Multimedia and Security Workshop*, Dallas, TX, 2007.

M.K. Johnson and H. Farid. Exposing Digital Forgeries Through Specular Highlights on the Eye. *9th International Workshop on Information Hiding*, Saint Malo, France, 2007.

H. Farid. Exposing Digital Forgeries in Scientific Images. *ACM Multimedia and Security Workshop*, Geneva, Switzerland, 2006.

W. Wang and H. Farid. Exposing Digital Forgeries in Video by Detecting Double MPEG Compression. *ACM Multimedia and Security Workshop*, Geneva, Switzerland, 2006.

M.K. Johnson and H. Farid. Exposing Digital Forgeries Through Chromatic Aberration. *ACM Multimedia and Security Workshop*, Geneva, Switzerland, 2006.

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S. Lyu, D. Rockmore, and H. Farid. Wavelet Analysis for Authentication. *Art + Math = X*, Boulder, CO, 2005.

J.E. Dobson, J.B. Woodward, S.A. Schwarz, J.C. Marchesini, H. Farid, and S.W. Smith. The Dartmouth Green Grid. *Workshop on High Performance Computing in Academia (in conjunction with International Conference on Computational Science)*, Atlanta, GA, 2005.

M.K. Johnson, S. Lyu and H. Farid. Steganalysis in Recorded Speech. *SPIE Symposium on Electronic Imaging*, San Jose, CA, 2005.

A.C. Popescu and H. Farid. Statistical Tools for Digital Forensics. *6th International Workshop on Information Hiding*, Toronto, CA, 2004.

S. Lyu and H. Farid. Steganalysis Using Color Wavelet Statistics and One-Class Support Vector Machines. *SPIE Symposium on Electronic Imaging*, San Jose, CA, 2004.

H. Sun, H. Farid, K. Rick, A. Hartov, D.W. Roberts, and K.D. Paulsen. Estimating Cortical Surface Motion Using Stereopsis for Brain Deformation Models. *Medical Image Computing & Computer Assisted Intervention (MICCAI)*, Montreal, Canada, 2003.

J. Ford, H. Farid, F. Makedon, L.A. Flashman, T.W. McAllister, V. Megalooikonomou, and A.J. Saykin. Patient Classification of fMRI Activation Maps. *Medical Image Computing & Computer Assisted Intervention (MICCAI)*, Montreal, Canada, 2003.

S. Periaswamy and H. Farid. Elastic Registration with Partial Data. *Second International Workshop on Biomedical Image Registration*, Philadelphia, PA, 2003.

H. Farid and S. Lyu. Higher-order Wavelet Statistics and their Application to Digital Forensics. *IEEE Workshop on Statistical Analysis in Computer Vision (in conjunction with CVPR)*, Madison, Wisconsin, 2003.

S. Lyu and H. Farid. Detecting Hidden Messages Using Higher-Order Statistics and Support Vector Machines. *5th International Workshop on Information Hiding*, Noordwijkerhout, The Netherlands, 2002.

H. Farid. Detecting Hidden Messages Using Higher-Order Statistical Models. *International Conference on Image Processing*, Rochester, NY, 2002.

H. Sun, H. Farid, A. Hartov, K.E. Lunn, D.W. Roberts, K.D. Paulsen. Real-time Correction Scheme for Calibration and Implementation of Microscope-based Image-guided Neurosurgery. *SPIE's International Symposium on Medical Imaging*, San Diego, CA, 2002.

H. Farid and A.C. Popescu. Blind Removal of Image Non-Linearities. *International Conference on Computer Vision (ICCV)*, Vancouver, Canada, 2001.

H. Farid. Reconstructing Ancient Egyptian Tombs. *The International Symposium on Virtual and Augmented Architecture*, Dublin, Ireland, 2001.

S. Periaswamy, J.B. Weaver, D.M. Healy Jr., D. Rockmore, P.J. Kostelec, and H. Farid. Differential Affine Motion Estimation for Medical Image Registration. *SPIE's 45th Annual Meeting*, San Diego, CA, 2000.

H. Farid and E.H. Adelson. Separating Reflections and Lighting in Images Using Independent Components Analysis. *Computer Vision and Pattern Recognition (CVPR)*, June 1999.

H. Farid and E.P. Simoncelli. Optimally Rotation-Equivariant Directional Derivative Kernels. *Computer Analysis of Images and Patterns (CAIP)*, Kiel, Germany, 1997.

H. Farid and E.P. Simoncelli. A Differential Optical Range Camera. *Optical Society of America*, Rochester, NY, 1996.

E.P. Simoncelli and H. Farid. Direct Differential Range Estimation Using Optical Masks. *European Conference on Computer Vision (ECCV)*, Cambridge, UK, 1996.

E.P. Simoncelli and H. Farid. Steerable Wedge Filters. *International Conference on Computer Vision (ICCV)*, Boston, MA, 1995.

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Hidden Messages, *WCAX TV News*, 10.19.01
Statistics Sniff Out Secrets appearing in *Technology Research News*, 9.26.01

INVITED TALKS   Detecting Deepfake Talking Heads, *YouTube*, 8.24
Creating, (Mis)using, and Detecting Deep Fakes, *National Academy of Sciecnes* 6.24
Creating, (Mis)using, and Detecting Deep Fakes, *Stanford University* 5.24
Creating, (Mis)using, and Detecting Deep Fakes, *Indiana University, Bloomington* 3.24
Generative AI (Deepfakes), *Google*, 1.24
Creating, (Mis)using, and Detecting Deep Fakes, *Google Safer Summit* (keynote) 10.23
Creating, (Mis)using, and Detecting Deep Fakes, *Vision Sciences Society* (keynote), 5.23

Creating, Weaponizing, and Detecting Deepfakes, *UC Santa Barbara*, 4.23
Combating Deep Fakes, *IEEE Biometrics Council*, 10.22
Disrupting Disinformation and Deep Fakes, *Science at Cal*, 8.22
Disrupting Disinformation, *Workshop on Disinformation at ICML* (keynote), 7.22
Deep Fakes, *U.S. State Department*, 7.22
Creating, Using, Misusing and Detecting Deep Fakes, *Dartmouth College*, 6.22
Detecting Deep Fakes, *USAID*, 4.22
Assessing the Reliability of Photographic Forensic Identification, *Federal Judicial Center*, 9.21
The Weaponization of Deep Fakes, *CASIS West Coast Security Conference*, 8.21
Creating, Weaponizing, and Detecting Deep Fakes, *SIGGRAPH* (keynote), 8.21
Creating, Weaponizing, and Detecting Deep Fakes, *University of Campinas, Brazil*, 6.21
The Accuracy, Fairness, and Limits of Predicting Recidivism, *UC Santa Barbara*, 4.21
Trust and Truth in the Age of Deep Fakes, *Notre Dame University*, 4.21
Trust and Truth in the Age of Deep Fakes, *Penn State University*, 4.21
Photographic Forensic Identification, *Stanford University*, 3.21
Creating, Weaponizing, and Detecting Deep Fakes, *Georgia Institute of Technology*, 3.21
Photographic Forensic Identification, *University of Wisconsin, Madison*, 2.21
Photographic Forensic Identification, *York University*, 2.21
Creating, Weaponizing, and Detecting Deep Fakes, *IS&T Symposium on Electronic Imaging*, 1.21
The Accuracy, Fairness, and Limits of Predicting Recidivism, *George Mason University*, 1.21
Creating, Weaponizing, and Detecting Deep Fakes, *Massachusetts Institute of Technology*, 12.20
Creating, Weaponizing, and Detecting Deep Fakes, *CASIS West Coast Security Conference*, 11.20
Creating, Weaponizing, and Detecting Deep Fakes, *Santa Fe Council on International Relations*, 11.20
The Accuracy, Fairness, and Limits of Predicting Recidivism, *Spark + AI Summit* (keynote), 11.20
The Accuracy, Fairness, and Limits of Predicting Recidivism, *Carnegie Mellon University*, 11.20
Assessing the Reliability of Clothing-Based Forensic Identification, *DiMACS Workshop on Co-Development of Computer Science and Law*, 11.20
Creating, Weaponizing, and Detecting Deep Fakes, *CyberSec&AI* (keynote), 10.20
Creating, Weaponizing, and Detecting Deep Fakes, *International Joint Conference on Biometrics* (keynote), 9.20
Creating, Weaponizing, and Detecting Deep Fakes, *Spark + AI Summit* (keynote), 6.20
Digital Forensics: Beyond real or fake, *Workshop on Media Forensics at CVPR* (keynote), 6.20
Detecting Deep-Fake Videos from Appearance and Behavior, *Workshop on Fair, Data Efficient and Trusted Computer Vision at CVPR* (keynote), 6.20
Detecting Deep-Fake Videos from Appearance and Behavior, *Deep Learning and Security Workshop at IEEE Symposium on Security and Privacy* (keynote), 5.20
Digital Forensics: From photoshop to deepfakes, *UNC Chapel Hill*, 2.20
Photo Forensics from Rounding Artifacts, *Computational Imaging Workshop* (keynote), 2.20
Digital Image and Video Forensics, *California Judges Association*, 10.19
Creating, Weaponizing, and Detecting Deep Fakes, *University of Maryland*, 10.19
Photo Forensics, *Amazon*. 8.19
Creating, Weaponizing, and Detecting Deep Fakes, *USENIX* (keynote), 8.19
Creating, Weaponizing, and Detecting Deep Fakes, *San Francisco Electronic Crimes Task Force*, 7.19
Creation, Weaponization, and Detection of Deep Fakes, *D.C. Circuit Judicial Conference*, 6.19
Digital Forensics: past, present, and future, *AI Foundation*, 6.19
Digital Forensics: past, present, and future, *Workshop on Media Forensics at CVPR* (keynote), 6.19
Protecting Children Online, *Missing & Exploited Children Training Conference*, 5.19
Detecting Deep Fakes, *IEEE International Workshop on Fake Multimedia* (keynote), 3.19
Fake Photos, *University of Florida*, 3.19
Digital Forensics, *Google*, 3.19
Digital Forensics, *Yahoo Research*, 12.18
Photo Forensics from JPEG Coding Artifacts, *Stanford University*, 11.18
Reining in Online Abuses, *University of California, Santa Barbara*, 10.18
How Realistic is Photorealistic?, *University of California, Berkeley*, 10.18
Digital Forensics, *SIGGRAPH Workshop on Truth in Images, Videos, and Graphics*, 8.18
The Danger of Predictive Algorithms in Criminal Justice, *TEDx AmoskeagMillyard*, 6.18
Reining in Online Abuses, *Plymouth State University*, 3.18
Photo Forensics, *University of Pennsylvania*, 12.17
Reining in Online Abuses, *Building Alliances - Preventing Terror*, Brussels Belgium, 10.17
Reining in Online Abuses, *SUNY Albany, Massry Lecture*, 9.17
Photo Forensics, *University of California, Berkeley*, 9.17
Reining in Online Abuses, *University of California, Berkeley*, 9.17

3-D Scene Reconstruction for Telepresence, *UNC, Chapel Hill*, 6.94

AWARDS	National Academy of Inventors (NAI), Fellow, 2016
	John Simon Guggenheim Fellowship, 2006
	Alfred P. Sloan Fellowship, 2002
PROFESSIONAL ACTIVITIES	IEEE Fellow, 2018
	Phi Beta Kappa (honorary), 2017
EDITORIAL BOARD	Journal of Online Trust and Safety, 2021-present
ASSOCIATE EDITOR	Annual Review of Vision Science, 2019-present
	IEEE Transactions on Information Forensics and Security, 2005-2008
PROGRAM COMMITTEE	Workshop on Image Forensics, CVPR, 2017-2024
	IEEE Workshop on Image Forensics (WIFS), 2017, 2019
	International Conference on Computational Photography, 2012-2015, 2021
	Information Hiding, 2010
	Media Security and Forensics (Electronic Imaging), 2009-2011
	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 (SBIR/STTR Phase I), 2018
NSF review panel (RI Small), 2013
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 Transactions on Information Security and Forensics, 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

CURRENT STUDENTS

Sarah Barrington, Ph.D. advisor
Justin Norman, Ph.D. advisor

FORMER STUDENTS

Shruti Agarwal (2022), Ph.D. advisor
Tiago Carvalho (2014), visiting Ph.D. student (UNICAMP, Brazil)
Emma Chiu '19, research advisor
Valentina Conotter (2011), Ph.D. co-advisor (University of Trento)
Julia Dressel '17, senior thesis advisor
Marc Faddoul (2019), M.S. advisor
Wei Fan (2018), postdoctoral advisor
Olivia Holmes '15, senior thesis advisor
Daniel Hopkins '10, research advisor
Kimo Johnson (2007), Ph.D. advisor
Eric Kee (2013), Ph.D. advisor
Simran Kaur, (2021), Haas Scholar, (UC Berkeley)
Jethro Rothe-Kushel '03, research advisor
Benedikt Lorch (2018), visiting M.S. student (University of Erlangen)
Siwei Lyu (2005), Ph.D. advisor

Brandon Mader '16, research advisor
David Martin '00, senior thesis advisor
Kiley McEvoy '06, research advisor
Sophie Nightingale (2020), postdoctoral advisor
Joseph Pechter '04, senior thesis advisor
William Pechter '04, senior thesis advisor
Senthil Periaswamy (2003), Ph.D. advisor
Coralie Phanord '16, research advisor
Andrew Pierce '02, research advisor
Alin Popescu (2005), Ph.D. advisor
Nelson Rosa '06, research advisor
Katherine Sherwin '01, research advisor
Priyanka Singh (2019), postdoctoral advisor
Hai Sun (2004), Ph.D. co-advisor
Sydni Topper '18, research advisor
Joshua Wang '15, thesis advisor
Weihong Wang (2009), Ph.D. advisor
Angela Zhu '17, research advisor

TEACHING
(BERKELEY)
Introduction to Data Structures and Analytics, INFO 206B, Fall 2023
Introduction to Programming and Computation, INFO 206A, Fall 2023
Structure and Interpretation of Computer Programs, CS61A, Spring 2023
Computer Vision, INFO 290, Fall 2022
Computer Vision, DATASCI 281, Spring 2021
Structure and Interpretation of Computer Programs, CS61A, Fall 2020
Introduction to Programming and Computation, INFO 206A, Fall 2020
Introduction to Data Structures and Analytics, INFO 206B, Fall 2020
Introduction to Programming and Computation, INFO 206A, Fall 2019
Introduction to Data Structures and Analytics, INFO 206B, Fall 2019

TEACHING
(DARTMOUTH)
Foundations of Applied Computer Science, CS 11, Spring 2018
Data Structures and Analytics, Tuck School of Business, Spring 2017
Fundamentals of Web Programming, Tuck School of Business, Spring 2017
Introduction to Programming and Computation, CS 1, Fall 2016
Fundamentals of Web Programming, Tuck School of Business, Spring 2016
Numerical and Computational Tools for Applied Science, CS 70/170, Spring 2016
Introduction to Programming and Computation, CS 1, Fall 2015
Numerical and Computational Tools for Applied Science, CS 70/170, Spring 2015
Introduction to Programming and Computation, CS 1, Fall 2014
Introduction to Programming and Computation, CS 1, Spring 2014
Introduction to Programming and Computation, CS 1, Spring 2013
Digital Image Forensics, CS 89/189, Spring 2013
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 88/188, 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 88/188, Spring 2000
Programming Languages, CS 68, Winter 2000
Data Structures and Programming, CS 15, Fall 1999

TESTIMONY
California State Assembly (understanding AI), 2.28.24

Senate Judiciary Subcommittee on Privacy, Technology, and the Law, (platform accountability: Gonzalez and Reform), 3.8.23
California State Assembly, (protecting kids online), 3.29.22
Australian Parliament, Select Committee on Social Media and Online Safety, 1.29.22
Illinois General Assembly (manipulated digital media), 8.26.21
U.S. House Energy & Commerce (section 230 reform), 3.15.21
U.S. House Energy & Commerce (how disinformation is dividing the nation), 6.24.20
U.S. House Energy & Commerce (Fostering a healthier internet to protect consumers), 10.16.19
U.S. House Committee on Science, Space, & Technology (online imposters and disinformation), 9.24.19
European Parliament Special Committee on Terrorism, 4.24.18
Singapore Select Committee on Deliberate Online Falsehoods, 3.27.18
U.S. Senate Judiciary, 9.3.17 (on-line extremism)
United Nations Counter-Terrorism Committee Executive Directorate, 11.30.16

EXPERT WITNESS TESTIMONY

U.S. v. Gunnery Sergeant Louis A. Lockard III, USMC, 2023
SAIC v. United States et al., U.S. Court of Federal Claims, 2022
Qualcomm Inc. v. Apple Inc., U.S. International Trade Commission, 2018
Qualcomm Inc. v. Apple Inc., U.S. District Court of Southern District of California, 2018
Lanutti v. Children's Hospital of Pennsylvania, Philadelphia, Pennsylvania, 2018
Salenger v. Inergy, 2017
United States of America v. Sweeney, 2016
Adobe v. Everyscape, Boston, Massachusetts, 2015
Hargett v. Frost, Indianapolis, Indiana, 2014 (deposition)
Ceglia v. Zuckerberg, 2012, (deposition)
United States of America v. Paul Burdulis, Worcester, Massachusetts, 2012
Garza, et al. v. Allied Chemical Corporation, et al., Hidalgo County, Texas, 2009
Operation Algebra, Edinburgh, Scotland, 2009
Pack v. Ross, et al, Nashville, Tennessee, 2009
State of New Hampshire. v. Katherine Johnson, 2009
DesertMicro v. Piersall, Jacksonville, Florida, 2007
State of Florida v. Michael Quattrocchi, 2007
State of Maine v. Melvin Logan, 2007
United States of America v. San Diego Gas & Electric Company, et al., 2007
State of Ohio v. David Harrison, 2006
State of New Hampshire v. John Lacroix, 2005
Graphic Security Systems v. Nautilus Security, 2005
State of Ohio v. Mark A. Heilman, 2004