

You Don't Say:



An FTC Workshop on Voice Cloning Technologies

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SPEAKER BIOS

Opening Remarks

Rohit Chopra was sworn in as a Federal Trade Commissioner on May 2, 2018. Commissioner Chopra has actively advocated to promote a fair and fully-functioning marketplace through vigorous agency enforcement that protects families and honest companies from those that break the law. During his tenure at the FTC, he has pushed for aggressive remedies against lawbreaking companies, especially repeat offenders, and has worked to reverse the FTC's reliance on no-money, no-fault settlements. After the passage of the Dodd-Frank Wall Street Reform and Consumer Protection Act, Chopra joined the Department of the Treasury to launch the new Consumer Financial Protection Bureau (CFPB). He then served as Assistant Director of the CFPB, overseeing the agency's student loan agenda. The Secretary of the Treasury also appointed him to serve as the CFPB's Student Loan Ombudsman, a new position established in the financial reform law. In these roles, he led efforts to spur competition in the student loan financing market, develop new tools for students and student loan borrowers to make smarter decisions, and secure hundreds of millions of dollars in refunds for borrowers victimized by unlawful conduct by loan servicers, debt collectors, and for-profit college chains. Chopra later served as Special Adviser to the Secretary of Education to advance the Department's efforts to improve student loan servicing, reduce unnecessary defaults, and bolster enforcement. He was also a Senior Fellow at the Consumer Federation of America, where he focused on consumer protection issues facing young people and military families, and a Visiting Fellow at the Roosevelt Institute. Commissioner Chopra is the recipient of multiple awards for his public service and contributions to the field of consumer finance. Prior to entering government, Chopra worked at McKinsey & Company, the global management consultancy, where he worked in the financial services, health care, and consumer technology sectors. He holds a BA from Harvard University and an MBA from the Wharton School at the University of Pennsylvania. He was also the recipient of a Fulbright Fellowship.

Presentation: The State of Voice Cloning Technology

Patrick G. Traynor is a Professor in the Department of Computer and Information Science and Engineering (CISE) at the University of Florida. He also co-directs the Florida Institute for Cybersecurity (FICS) Research and is the John and Mary Lou Dasburg Preeminent Chair in Engineering. Dr. Traynor is committed to the real-world impact of his research, and is the co-founder of three start-up companies (Skim Reaper, CryptoDrop, and Pindrop Security). He and his team have uncovered critical vulnerabilities in cellular networks, made the first measurement of mobile malware infections, and offer robust mechanisms for combatting Caller-ID scams. He is the recipient of the National Science Foundation CAREER Award (2010), a Sloan Fellow (2014), a Fellow for the Center for Financial Inclusion at Accion (2016), and a Kavli Fellow (2017).

Panel 1: The Positives and Negatives of Voice Cloning

John Costello has been a speech language pathologist specializing in augmentative and alternative communication (AAC) at Boston Children's Hospital for nearly 35 years. Costello pioneered the Message Banking™ Process in the pediatric intensive care unit in the early 90s and now specializes in AAC for people with ALS where he has had a particular focus in voice preservation and custom voice creation. He is adjunct faculty at Boston University, has authored or co-authored papers and chapters focused on AAC intervention and has lectured nationally and internationally on varied topics in AAC.

Rebecca Damon was first elected SAG-AFTRA executive vice president, the union's second-highest office, in April 2016. She was re-elected in 2017 and again in 2019. Damon, a New York-based actor and voiceover performer, has also served SAG-AFTRA in a variety of other capacities. A champion for workers' rights, Damon's leadership includes strengthening New York's right of publicity and digital image rights for the benefit of all members. Outside of SAG-AFTRA, Damon advocates for workers' rights as a vice president of the New York State AFL-CIO Executive Council and a member of the New York City Central Labor Council. She is also a vice president of the SAG-AFTRA Foundation, an educational, humanitarian and philanthropic nonprofit organization. She is the primary elected liaison for Foundation programming in New York and oversaw creation of the Robin Williams Center for Entertainment and Media in Times Square.

Rupal Patel is the Founder and CEO of VocaliD, a voice technology company that provides AI-generated voices with personality. VocaliD's award-winning technology leverages the latest advances in machine learning, signal processing and voice analytics along with the company's crowdsourced Voicebank to create inclusive, diverse and brand aligned voices for organizations and individuals with special needs. Dr. Patel began her career as a speech clinician where she became fascinated with the potential of using speech technologies for assistive communication which then led to a doctorate in speech science. Her interdisciplinary research applies empirical evidence about speech motor control to develop novel communication technologies. She is currently on leave from Northeastern University where she is a tenured professor in the Khoury College of Computer Sciences and the Department of Communication Sciences and Disorders. Named one of The Top 11 Visionaries in Voice 2019 by Voicebot.ai and Fast Company's 100 Most Creative People in Business, Dr. Patel has been featured on TED, NPR, and in major international news and technology publications.

Mona Sedky is a federal prosecutor with the U.S. Department of Justice's Computer Crime & Intellectual Property Section in Washington, D.C. For over a decade, Sedky has led criminal investigations and prosecutions of a wide variety of cybercrimes in federal courts around the country. Her cases have focused on prosecuting cyber sexual predators engaged in "sextortion," non-consensual pornography, online threats, and other forms of cyberstalking, as well as computer hackers engaged in large-scale theft and trafficking of payment card data and other personally identifiable information. Her other representative cases include corporate network intrusions, infrastructure cyber attacks, commercial bank account intrusions, ATM cashouts, online international money laundering, online securities fraud, and cable modem hacking. Sedky has conducted several multi-week jury trials. She also regularly guest-lectures at Georgetown University Law Center. Prior to joining the Department, Sedky spent ten years with the Federal Trade Commission's Bureau of Consumer Protection, where she civilly prosecuted online and brick-and-mortar fraud schemes. Her prosecution work has been featured in VICE's *Broadly*, *Wired*, *Bloomberg*, and on the *Lawfare Podcast*. She was listed in *Forbes*' "America's Top 50 Women in Tech 2018" and *Wired U.K.*'s "Ten Female Innovators You Should Know About" (2018).

Christine Todaro is an attorney in the FTC's Division of Marketing Practices, Bureau of Consumer Protection. Since joining the FTC in 2009, Todaro has investigated and litigated cases against individuals and companies engaged in a variety of deceptive and unfair practices, including business opportunity schemes, unsolicited text messaging, and high-tech fraud. In addition, Todaro is the FTC's Program Coordinator for the Magnuson-Moss Warranty Act, and the FTC's Franchise and Business Opportunity Rules. Todaro received her JD from the University of Cincinnati College of Law and her BBA *cum laude* from the University of Notre Dame.

Panel 2: The Ethics of Voice Cloning

Rosalyn W. Berne, Ph.D. serves the National Academy of Engineering as Director for the Center of Engineering Ethics and Society (CEES). Among her responsibilities are Principle Investigator on the NSF sponsored Online Ethics Center for Engineering and Science, better known as the OEC. As Associate Professor of Engineering and Society at the University of Virginia's School of Engineering and Applied Sciences, Dr. Berne explores the intersecting realms of emerging technologies, science, fiction and myth, and the links between the human and non-human worlds, and teaches courses on engineering ethics. Among her publications are two academic books: *Nanotalk: Conversations with Scientists and Engineers about Ethics, Meaning and Belief in the Development of Nanotechnology*, and *Creating Life from Life: Biotechnology and Science Fiction*; numerous conference papers and journal articles; and *Waiting in the Silence*, a science fiction novel. She also has written two award-winning books published in the genre of "body-mind-spirit."

Leigh Hafrey is Senior Lecturer in Behavioral and Policy Sciences at the MIT Sloan School of Management. Since 1995, he has offered courses in communication, ethics, and leadership in the MBA and other graduate programs in the U.S. and abroad. He has also taught at Harvard Business School; served as co-Master of Mather House, one of the undergraduate residences in Harvard College; and for more than 20 years has moderated seminars in programs of the Aspen Institute, an international educational and policy studies organization focused on values-driven leadership. He serves on the boards of the Green Rural Opportunities Fund, a spin-off of the Butajira, Ethiopia-based GreenPath Food, and ClassACT HR73, an alumni initiative of the Harvard-Radcliffe Class of 1973. Hafrey is the author of two books on values and leadership, *The Story of Success: Five Steps to Mastering Ethics in Business* (2005) and *War Stories: Fighting, Competing, Imagining, Leading* (2016). He holds an A.B. in English Literature from Harvard College and a Ph.D. in Comparative Literature from Yale University.

Ashish Jaiman is the Director of Technology and Operations for Microsoft's Defending Democracy program. He has more than 20 years' experience in building and leading cross-functional, high-performing teams to create and implement highly scalable, mission-critical software solutions and lines of business. Jaiman's mission is to help customers to improve their security posture and defend against cyber-attacks. Jaiman led the work on Microsoft AccountGuard service, which provides customers with additional monitoring and notification against nation-state attacks. Jaiman is currently working on disinformation defense and deepfakes intervention strategy and its impact on democracy. In his previous entrepreneurial adventures, Jaiman has driven growth in and exited two successful startups. Jaiman was CTO of NGP Software (now NGPVAN) before coming to Microsoft. Jaiman also ran the engineering team for a startup that was acquired by a bank.

Kirsten Martin is an associate professor at the George Washington University's School of Business. She researches privacy, technology, and corporate responsibility. She has written about privacy and the ethics of technology in leading academic journals across disciplines (Journal of Business Ethics, BEQ, Harvard Journal of Law and Technology, Journal of Legal Studies, Washington University Law Review, Journal of Business Research, etc.) as well as practitioner publications such as MISQ Executive. She is the Technology and Business Ethics editor for the Journal of Business Ethics and the recipient of three NSF grants for her work on privacy, technology, and ethics. Dr. Martin is also a member of the advisory board for the Future Privacy Forum and a fellow at the Business Roundtable Institute for Corporate Ethics for her work on stakeholder theory and trust. She is regularly asked to speak on privacy and the ethics of big data, including her recent Tedx talk. Dr. Martin earned her B.S. Engineering from the University of Michigan and her MBA and Ph.D. from the University of Virginia's Darden Graduate School of Business.

Dan Salsburg is the Chief Counsel of the FTC's Office of Technology Research and Investigation (OTech). Housed in the FTC's Bureau of Consumer Protection (BCP), OTech serves as a trusted resource for research and information on technology's impact on consumers. Salsburg has researched the use of leaked identifiers and payment data, the adoption of email authentication technologies by popular domains, manufacturers' practices that inhibit product repairs, and the security offerings of web hosts that market their services to small businesses. In 2016, Salsburg helped organize the first FTC PrivacyCon. Prior to joining OTech, Salsburg served as an Assistant Director and staff attorney in BCP, where he supervised and litigated cases involving spam, internet fraud, and mobile technologies. Previously, he served as a Senior Trial Attorney in the Commodity Futures Trading Commission's Division of Enforcement. He received his BA and JD degrees from the University of Pennsylvania.

Panel 3: Authentication, Detection, and Mitigation

John Amein is Vice President at ID R&D, a leading provider of multi-modal biometric technologies including best-in-class voice biometrics for mobile and web. Amein began his work with biometrics in 2006 at Voxeo, which was acquired by Aspect Software in 2013 where he served as VP of Product Management. Prior to joining ID R&D he also served as president of Voice Biometrics Group and held leadership roles at Dialogic, Intel and AT&T. He earned his MSEE from Stanford and a BSEE from North Carolina State University, where he also serves as a member of the Strategic Advisory Board for the ECE Department.

Neil F. Johnson supports DARPA's Media Forensics (MediFor) and Semantic Forensics (SemaFor) programs as a Science & Engineering Technical Advisor (SETA) contractor. In late 2018, Dr. Johnson joined DARPA driven by his passion for digital forensics, and getting the right tools into the hands of practitioners. Following the attacks on 9/11/2001, he left his role as research scientist and Associate Director of the Center for Secure Information Systems (CSIS) at George Mason University (GMU) to apply his research to supporting national security and combating terrorism. Dr. Johnson has over 20-years in multimedia analysis and over 10 running and leading research in a forensics laboratory. He never fully left academia. His teaching career spans nearly 17 years covering topics such as cryptography, forensic science, and media analysis as an Adjunct Professor at George Washington University (2003-2017), George Mason University (2018-present), and guest lectures at other institutions.

Siwei Lyu is a Professor at the Department of Computer Science and the Director of Computer Vision and Machine Learning Lab (CVML) of University at Albany, State University of New York. Dr. Lyu received his Ph.D. degree in Computer Science from Dartmouth College in 2005, and his M.S. degree in Computer Science in 2000 and B.S. degree in Information Science in 1997, both from Peking University, China. Dr. Lyu's research interests include digital media forensics, computer vision, and machine learning. Dr. Lyu has published over 130 refereed journal and conference papers. Dr. Lyu's research projects are funded by NSF, DARPA, ARO and NIJ. He is the recipient of the IEEE Signal Processing Society Best Paper Award (2011), the National Science Foundation CAREER Award (2010), SUNY Chancellor's Award for Excellence in Research and Creative Activities (2018) and Google Faculty Research Award (2019). Dr. Lyu has testified at public hearings concerning DeepFakes before Congress and the New York State Senate.

Patrick G. Traynor, see above.

Will Maxson is an Assistant Director of the FTC's Division of Marketing Practices, where he previously served as Staff Attorney and Program Manager for Do Not Call Enforcement. Before joining the FTC, Maxson was a litigation associate at Jones Day and at Wiley Rein (now Wiley). Maxson received a BA from Vanderbilt University and graduated cum laude from the University of Michigan Law School.

Closing Remarks

Lois C. Greisman heads the Division of Marketing Practices in the FTC's Bureau of Consumer Protection. Under Greisman's management, Marketing Practices leads the FTC's law enforcement initiatives tackling telemarketing fraud (including Do Not Call/Robocall enforcement), fraudulent business and investment opportunity schemes (including multilevel marketing), mail fraud (including sweepstakes and lotteries), illegal spam, and Internet frauds (including technical support scams). Greisman also directs the FTC's work to curb fraud in connection with different payment systems, as well as its enforcement of the Magnuson-Moss Warranty Act. Before joining Marketing Practices, Greisman headed the Division of Planning and Information, where she managed the FTC's Identity Theft Program, the Consumer Response Center, and also supervised implementation of the National Do Not Call Registry. Previously, Greisman served as Chief of Staff to FTC Chairman Timothy J. Muris. She also served as Attorney Advisor to Chairman Robert Pitofsky and Chairman Janet D. Steiger. Greisman worked in private practice in Washington, D.C. before joining the FTC. Greisman received her bachelor's degree from Brown University, and her law degree from George Washington University.