

Andrea Goldsmith is a professor of Electrical Engineering at Stanford University, and was previously an assistant professor of Electrical Engineering at Caltech. While on leave from Stanford, she founded and served as CTO of Quantenna Communications Inc., a semiconductor company developing next-generation wireless network technology. She also previously held industry positions at Maxim Technologies, Memorylink Corporation, and AT&T Bell Laboratories. Her research includes work on design and capacity analysis of wireless systems and networks, cognitive radios, sensor and "green" networks, cross-layer wireless network design, and applications of communications and signal processing to health and neuroscience. She is author of the book "Wireless Communications" and co-author of the book "MIMO Wireless Communications," both published by Cambridge University Press. She received the B.S., M.S. and Ph.D. degrees in Electrical Engineering from U.C. Berkeley.

Dr. Goldsmith is a Fellow of the IEEE and of Stanford. She has received several awards for her work, including the National Academy of Engineering Gilbreth Lectureship, the IEEE Comsoc Wireless Communications Technical Committee Recognition Award, the Alfred P. Sloan Fellowship, the Stanford Terman Fellowship, the National Science Foundation CAREER Development Award, the Office of Naval Research Young Investigator Award, and the Silicon Valley Business Journal's Women of Influence Award. In addition, she was a co-recipient of the 2005 IEEE Communications Society and Information Theory Society joint paper award. Dr. Goldsmith currently serves on the steering committee for the IEEE Transactions on Wireless Communications and as editor for the Journal on Foundations and Trends in Communications and Information Theory and in Networks. She previously served as an editor for the IEEE Transactions on Information Theory, the IEEE Transactions on Communications and the IEEE Wireless Communications Magazine, as well as guest editor for several IEEE journal and magazine special issues. Dr. Goldsmith participates actively in committees and conference organization for the IEEE Information Theory and Communications Societies and has served on the Board of Governors for both societies. She is a Distinguished Lecturer for both societies and Past President of the IEEE Information Theory Society. She also founded the student committee of the IEEE Information Theory society, is an inaugural recipient of Stanford's Postdoc Mentoring Award, and served as Stanford's Faculty Senate Chair for the 2009/2010 academic year.