



2024 NATIONAL INVENTORS HALL OF FAME INDUCTEE

Born: July 4, 1964

Primary Connections:

- Princeton University: Dean of Engineering and Applied Science; Professor of Electrical Engineering; 2020-present
- Plume Design Inc.: Co-founder, 2010
- Quantenna Communications Inc.: Co-founder, 2005
- Stanford University: Professor of Electrical Engineering, 1999-2020
- Memorylink Corp.: Chief Scientist, 1998-2002
- California Institute of Technology: Assistant Professor, 1994-98
- Bell Labs: Intern and Consultant, 1991-92
- University of California, Berkeley: Research Assistant, 1989-94
- MAXIM Technologies Inc.: Systems Engineer, 1986-90

Education:

- University of California, Berkeley: B.S., Engineering Mathematics, 1986; M.S., Electrical Engineering, 1991; Ph.D., Electrical Engineering, 1994

Key Memberships/Awards:

- IEEE James H. Mulligan Jr. Education Medal, 2024
- Silicon Valley Engineering Hall of Fame, 2024
- ACM SIGMOBILE Outstanding Contribution Award, 2022
- Marconi Society: Marconi Prize, 2020
- IEEE Eric E. Sumner Technical Field Award in Communications Technology, 2019

10 Things You Need to Know About

Andrea Goldsmith

Adaptive Beamforming for Multi-Antenna Wi-Fi

U.S. PATENT NO. 8,064,835

1. Goldsmith was born in 1964 in Berkeley, California, and grew up in Los Angeles.
2. She began taking junior college courses while in high school, and at age 17 she left school to travel through Europe. "Seeing my own country and culture through the eyes of others was transformative."
3. At Stanford University, Goldsmith led efforts to improve recruitment and retention of diverse faculty and students.
4. She was the first woman to receive the Marconi Prize since it was first awarded in 1975.
5. Goldsmith was appointed in 2021 to the President's Council of Advisors on Science and Technology (PCAST).
6. She co-founded Plume Design Inc. and Quantenna Communications Inc.
7. Goldsmith is on the corporate boards of Crown Castle, Intel Corp. and Medtronic Inc.
8. She is a member of the National Academy of Engineering, the American Academy of Arts and Sciences, and the Royal Academy of Engineering.
9. Goldsmith is the author of the highly influential textbook "Wireless Communications," published in 2005.
10. She has 38 U.S. patents.