

**University of Maryland**  
**ADVANCE Program for Inclusive Excellence**  
**ADVANCE Professors 2016-2017**



**Mary Ann Hoffman—Professor, Department of Counseling, Higher Education, and Special Education**  
**ADVANCE Professor for the College of Education and School of Public Policy**

Dr. Hoffmann's primary research interests are in health psychology with a focus on the psychosocial aspects of health and wellness. In addition, she is interested in counseling process and outcome and in counselor training and supervision. She is a licensed psychologist in both Maryland and the District of Columbia.

- Fellow, American Psychological Association (Divisions 17, 35 and 38)
- Dorothy Booz Black Award for Outstanding Contributions to Health Counseling Psychology
- Outstanding Graduate Mentor (College of Education)
- College of Education Outstanding Faculty Mentor Award

<http://www.positivecopinghealthandwell-beinglab.com/>



**Amy Mullin—Professor, Chemistry and Biochemistry**  
**ADVANCE Professor for the College of Computer, Mathematical and Natural Sciences**

Dr. Mullin's research interests focus on Chemical dynamics of highly excited molecules; collisions and chemical reactions of activated molecules; high-resolution transient optical probing; dynamics of molecules in extreme rotational states created in an optical centrifuge, behavior of molecules in strong optical traps, photophysics; photochemistry of early earth atmosphere; scalable nanolithography.

- Fellow of the American Physical Society (2009)
- Creative Educator Award, College of Computer, Mathematical and Natural Science (2011)

<http://www.chem.umd.edu/amy-mullin/>



**Madlen Simon—Associate Professor, Architecture Program**  
**ADVANCE Professor for the School of Architecture, Planning and Preservation**

Prof. Simon is an experienced architect, educator and scholar dedicated to preparing students for professional careers in architecture. Her scholarship, research, and creative practice are in the area of design – design thinking, design education, design of buildings, and the application of design to issues such as sustainability and community health.

<http://www.arch.umd.edu/arch/faculty/madlen-simon>



**Elisabeth Smela—Professor, Mechanical Engineering  
ADVANCE Professor for the A. James Clark School of Engineering**

Dr. Smela's research focuses on the use of organic materials in microsystems, particularly polymer MEMS and bioMEMS. At the UMD Laboratory for MicroTechnologies, she and her team conduct research to develop an understanding of the opportunities and constraints of cell-based sensor systems.

- NSF Presidential Early Career Award for Scientists and Engineers (PECASE), 2004 (converted from CAREER award, 2003)
- E. Robert Kent Teaching Award for Junior Faculty, UMD, 2004
- Outstanding Invention of 2004, Office of Technology Commercialization, UMD cell sensor based pathogen detection

<http://www.mse.umd.edu/faculty/smela>



**Jennifer Ann Golbeck—Associate Professor, Information Studies; Affiliate Associate Professor, Computer Science  
ADVANCE Professor for the College of Information Studies and the Philip Merrill College of Journalism**

Dr. Golbeck's research focuses on algorithms that leverage personal data shared on social media and in other big data contexts to understand deeper, private information about people and their relationships. This connects to work on privacy, usable security, content recommendation, and trust. In addition to her academic work, Dr. Golbeck is a frequent guest on NPR and commercial radio and is a sought after keynote speaker.

- University of Maryland Research Communication Award, 2016
- University System of Maryland Board of Regents Faculty Award for Mentoring, 2015

<http://www.cs.umd.edu/~golbeck/>



**Nan Bernstein Ratner—Professor, Hearing and Speech Sciences  
ADVANCE Professor for the College of Behavioral and Social Sciences**

Dr. Bernstein Ratner's work examines how typical and communicatively-disordered children develop expressive language skills, and the potential role of adult input models in this process. She applies her work to a number of clinical populations, including people who stutter, children with seizure disorder, and children with Autism Spectrum Disorder. A primary approach used in Dr. Bernstein Ratner's work is computational analysis of large naturalistic language data sets, in conjunction with the international TalkBank project, for which she serves as a clinical consultant.

- International Fluency Association, Distinguished Researcher Award (2006)
- Undergraduate Research Mentor of the Year, University of Maryland (2010)
- Miegunyah Distinguished Fellowship, University of Melbourne (2012)
- Dean's Medal, College of Behavioral and Social Sciences, University of Maryland (2013)
- Fellow (1996) and Honors (2014), American Speech, Language and Hearing Association
- Fellow (2014) (Psychology Division), American Association for the Advancement of Science (AAAS)
- Distinguished alumna (2016) Temple University College of Health Professions

<https://hesp.umd.edu/facultyprofile/Bernstein%20Ratner/Nan>



**Carol L. Keefer—Professor, Animal and Avian Sciences**  
**ADVANCE Professor for the College of Agriculture and Natural Resources**

Dr. Keefer's research explores mechanisms controlling development in mammalian embryos and embryonic stem cells (ESC). Her current research program focuses on bovine embryo metabolism using an approach that combines more traditional genetic and cellular molecular assessments with novel pathway flux analysis (fluxome and metabolome). She also maintains active collaborations with research scientists at the Smithsonian Conservation Biology Institute studying endangered species, more specifically, whooping cranes and endangered felids. Prior to joining the University in 2003, she was a Senior Research Scientist at Nexia Biotechnologies Inc., Montreal, Quebec, where she led the embryology and nuclear transfer (animal cloning) research team.

<http://ansc.umd.edu/people/carol-l-keefer>  
<http://www.keeferslab.com/>



**Carmen A. Balthrop—Professor, Voice and Opera**  
**ADVANCE Professor for the College of Arts and Humanities**

Professor Balthrop is a scholar and a world-renowned professional musician of vocal music. Her expertise is in classical technique in a variety of genres, including opera, oratorio and recital. In teaching her undergraduate and graduate courses, she specializes in training aspiring singers to master the vocal technique and communicative skills for a career in performance and teaching. As she believes that singers should train as athletes, one of her main areas of focus is on the health, wellness and physical strength of the body to support the singing voice. To that end, she incorporates ancient exercises for breath and body coordination and nutritional guidelines for strength and stamina.

- Inducted into the 1995 Inaugural Class of the University of Maryland Alumni Hall of Fame, one of only twenty-one alumni honored.
- Visiting Professor: Shanghai Conservatory, Beijing, China Conservatory, Moscow Conservatory, St. Petersburg Conservatory.
- Discography: Deutsche Grammophon, Fonit Cetra, New World Records, Ponto Records, Mondo Musica Records, Elan Recordings, Emani Recordings
- NEA Review Panelist
- CAPAA AWARD 2012
- CAPAA AWARD 2015
- Chair of the Voice/Opera Division in the School of Music at UMD

[http://www.music.umd.edu/faculty/music\\_directory/voice\\_opera/carmen\\_balthrop](http://www.music.umd.edu/faculty/music_directory/voice_opera/carmen_balthrop)



**Jie Zhang—Professor, Marketing**  
**ADVANCE Professor for the Robert H. Smith School of Business**

Jie Zhang is a Professor of Marketing and the Harvey Sanders Fellow of Retail Management at the Robert H Smith School of Business. Her general research interest is to apply advanced econometric and statistical models to study consumer purchase behaviors and retail strategies in the digital economy. She is a recognized expert in Internet retailing, customized promotions, retail management, and quantitative marketing models. Her research has been published in top journals of marketing and management, and has won several prestigious awards. Jie teaches advanced analytics models, retail analytics, and retail management in the MBA, MS, and undergraduate programs, respectively, and has won many teaching awards.

<http://www.rhsmith.umd.edu/directory/jie-zhang>



**Elaine A. Anderson—Professor and Chair, Family Science**  
**ADVANCE Professor for the School of Public Health**

Dr. Anderson Dr. Anderson is a nationally recognized leader and scholar in the field of family policy. Her primary research interests focus on such policy topics as homeless families, nonresidential fathers, rural low-income women's health, welfare reform, deinstitutionalization, Head Start and child care, and work policy.

- Fellow, National Council on Family Relations
- Past-President (2011-2013) of National Council on Family Relations
- Congressional Science Fellow
- Doris Sands Outstanding Teaching Award (School of Public Health, formerly Health & Human Performance)
- Outstanding Research Award (School of Public Health, formerly Health & Human Performance)
- Outstanding Undergraduate Student Mentor (Department of Family Science)

<https://sph.umd.edu/people/elaine-anderson>