Michael L. Honig
Curriculum Vitae, October 2017

Academic Title: Professor
Department of Electrical Engineering & Computer Science
Northwestern University
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Education

Ph.D. in Electrical Engineering
University of California, Berkeley, May 1981

M.S. in Electrical Engineering
University of California, Berkeley, May 1978

B.S. with Honors in Electrical Engineering
Stanford University, May 1977

Professional Experience

Since 10/94   **Professor**
Department of Electrical & Computer Engineering
Northwestern University, Evanston, IL
Teaching and research in communications, networks, and signal processing.

Feb-May 2016   **Visiting Scholar**
Institute for Network Coding
Chinese University of Hong Kong

April 2012   **Visiting Scholar**
CSIRO Information Communication and Technology Centre
Marsfield, New South Wales, Australia

Summers 2007-10 **Visiting Humboldt Scholar**
School of Electrical Engineering and Information Technology
Technical University of Munich

Professional Experience (cont.):

Fall 2004	**Visiting Fellow** Department of Electrical Engineering Princeton University
Fall 2000	**Visiting Scholar** Department of Electrical Engineering & Computer Science University of California, Berkeley
8/99, 8/01	**Visiting Scholar** Sydney University (also 9/97) and Southen Poro Communications Sydney, Australia
6-9/96	**Summer Faculty** NRaD (Naval Research and Development facility) San Diego, Ca.
6-9/96	**Visiting Scholar** University of California, San Diego (Joint appointment with NRaD)
11/83-10/94	**Member of Technical Staff** Computing and Communications Research Department Bellcore, Morristown, New Jersey
7/81-11/83	**Member of Technical Staff** Data Theory Group, Bell Laboratories Holmdel, New Jersey

Consulting

7/10-1/16	*Nokia Solutions and Networks* (previously *Motorola*) Design and analysis of algorithms for cellular networks.
8/09-2/11	*WiLan vs. LG*: Expert consultant for LG
5/07-8/08	*Agere vs. Sony*: Expert witness for Sony. The case was concerned with a CDMA patent for 802.11b.
4/06-4/07	*Broadcom vs. Qualcomm*: Expert witness for Broadcom. The case was concerned with patents for UMTS (CDMA) receivers.

Consulting (cont.):

6/02-10/03   *In-Flight vs. AT&T*: Expert witness for AT&T.
                  The case was concerned with an air-to-ground communication system.

                  Various activities in the area of wireless communications and signal processing
                  for Motorola, SAIC, University of Chicago, and Ameritech.

Honors and Awards

2017 IEEE WCNC best paper award (with X. Chen, Z. Zhou, and D. Guo)

Distinguished speaker, Singapore University of Technology and Design,
March 2014

IEEE Information Theory Society Board of Governors, 1996--2002,
2012-2015

Booz Allen distinguished colloquium speaker
ECE Department, University of Maryland, College Park (Nov. 2012)

2012 IEEE WCNC best paper award -- MAC and Cross-Layer Design
(with C. Shi, S. Nagaraj, and P. Fleming)

2010 Marconi prize paper award (IEEE Communications Society)
(with Y. Zhu, D. Guo)

Humboldt Research Award for Senior U.S. Scientists (2007)
(Alexander von Humboldt Foundation)

Visiting Wei Lun professor, Chinese University of Hong Kong (2008)

Included in ISI list of highly cited researchers.

2002 IEEE Communications Society and Information Theory Society
Joint Paper Award (with W. Xiao)

Fellow of IEEE, 1997

Ameritech Professor of Information Technology
Department of Electrical & Computer Engineering
Northwestern University, 9/1/94-8/31/97

F.E. Terman Award for Academic Excellence, 1976

Research Interests

Wireless and multiuser communications/networks

Signal processing, adaptive filtering

Data communications networks;
Modeling, performance analysis, and simulation of networks
and distributed systems

Modeling of macro-economic systems

Courses Taught

At Northwestern:
Wireless Communications (EECS 380), Analog Communications (EECS 307),
Digital Communications (EECS 478), Information Theory (EECS 428),
Adaptive Filters (EECS 463), Wireless Technologies (for MSIT program),
Engineering Analysis (Gen_Eng 205-1)

Topics in Signal Processing
Technical University of Munich, Summer 2014

Topics in Digital Communications
Technical University of Munich, Summer 2007

Wireless Communications (EECS 290S)
University of California, Berkeley, Fall 2000

Signal Analysis and Communications Systems (EE 485)
Visiting Lecturer (Professor), Princeton University, Fall 1993

Advances in Coding and Equalization for Bandlimited Channels
Short course given at the Universidad Polytecnica de Madrid, Jan. 1991

Selected Topics in Adaptive Filtering and Data Communications
Short course given at Tsing Hua University, Beijing, China, July 1988

Professional Activities

Member, IEEE Information Theory Society awards committee (2014-2015)

Member, advisory board, NSF Center for the Science of Information (2013)

Member, IEEE Fellow Committee for the Information Theory Society (2008-11)

Member, IEEE Information Theory Society awards committee (2008)

Member, National Research Council committee
   R&D strategies to improve surface transportation security

National Science Foundation panel member
   Various panels related to signal processing and communications

Editorships, Conference Committees

Guest editor, *IEEE Communications Magazine*,
   special issue on LTE-Advanced Pro (Parts 1-3), May-July 2016

Tutorials chair, Wireless Communications and Networking Conference, 2017

Co-organizer (with R. Berry), session on "Heterogeneous Networks",
Communication Theory Workshop, Dana Point, Ca., May 2015.

Panel organizer and moderator: "Spectrum Management and Policy",
IEEE Globecom 2013, Atlanta, Georgia.

Technical Program Committee Co-Chair (with A. Guillen i Fabregas and A. Orlitsky),
2013 IEEE Information Theory Workshop, Sevilla, Spain

Co-chair (with Randall Berry), 2012 IEEE Communication Theory Workshop

Co-chair (with Randall Berry, Rakesh Vohra), Spectrum Markets Workshop,
Northwestern University, June 2011.

Guest editor, *Journal of Selected Areas in Signal Processing*
   Special issue on "Performance Limits of Ultra-Wideband Systems", October 2007.

Editor, *Foundations and Trends in Communications and Information Theory*
(since 2003)

Editor for Communications,
IEEE Transactions on Information Theory, 9/97-10/00

Editor for Communication Theory
IEEE Transactions on Communications, 10/90-10/95

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