

INGRID DAUBECHIES

Department of Mathematics &
Department of Electrical and
Computer Engineering
Duke University, Box 90320,
Durham, NC 27708-0320, USA



MATH & ECE

Date, place of birth: Aug. 17, 1954
in Houthalen, Belgium
Citizenship: Belgian Citizen and
Naturalized US Citizen, 1996

Education:

1975 Bachelor's degree in Physics; Vrije Universiteit Brussel
1980 Ph.D. in Theoretical Physics; Vrije Universiteit Brussel

Positions Held:

1975 to 1984 IKKW vorser (~ Research Assistant); Dept. for Theoretical Physics, Vrije Universiteit Brussel
1984 to 1987 (N)FWO Bevoegdverklaard Navorser (~ Research Professor); Dept. for Theor. Phys., VUB
1987 to 1994 Technical Staff Member; Mathematics Research Center, AT&T Bell Laboratories
1991 to 1993 Professor; Mathematics Department, Rutgers University
1994 to 2010 Professor; Math. Dept. and Progr. in Applied & Computational Math., Princeton University
2004 to 2010 William R. Kenan, Jr. Professor at Princeton University
2011 to — James B. Duke Professor; Mathematics & ECE Departments, Duke University

Research Interests:

Time-Frequency Analysis (in particular but by no means exclusively, Wavelets) and applications to mathematics, to the other sciences, to engineering, and to art history.

Awards and Honors:

Louis Empain Prize for Physics (Belgium, 1984)
John D. and Catherine T. MacArthur Fellowship (1992 to 1997)
American Mathematical Society Steele Prize: for Exposition (1994), for Seminal Research (2011)
American Mathematical Society Ruth Lyttle Satter Prize (1997)
The International Society for Optical Engineering Recognition of Outstanding Achievement (1998)
IEEE Information Theory Society Golden Jubilee Award for Technological Innovation (1998)
National Academy of Sciences Medal in Mathematics (2000)
Eduard Rhein Foundation 2000 Basic Research Award (2000)
Gold Medal (Gouden Penning) of the Flemish Royal Academy of Arts and Sciences, Belgium (2005)
ICIAM Pioneer Prize (2008)
Lars Onsager Medal (2010)
Guggenheim Fellow (2010)
Benjamin Franklin Medal for Electrical Engineering (2011)
Booker Gold Medal of the URSI (International Union of Radio Engineers) (2011)
James Kilby Medal of the IEEE Signal Processing Society (2011)
Okawa Prize (2011)
Nemmers prize (2012)
BBVA Foundation Frontiers of Knowledge and Culture Award in Basic Science (with D. Mumford) (2013)
Member of the American Academy of Arts and Sciences (elected 1993)
 US National Academy of Sciences (elected 1998), of Engineering (elected 2015)
 Royal Netherlands Academy of Arts and Sciences (Foreign member; elected 1999)
 American Philosophical Society (elected 2003)
 London Mathematical Society (Honorary Member; elected 2007)
 Académie des Sciences, Paris, France (Foreign Member; elected 2009)
 Académie Royale (2010) & Koninklijke Vlaamse Academie voor Wetenschappen
 en Kunsten (2011), Belgium

Doctor Honoris Causa, Université Libre de Bruxelles (Belgium) (2000)
École Polytechnique Fédérale, Lausanne, Switzerland (2001)
Université Pierre et Marie Curie, Paris, France (2005)
Università degli Studi di Genova, Genoa, Italy (2006)
Universiteit Hasselt, Belgium (2008)
Universitet Trondheim, Norway (2010)
Oxford University, United Kingdom of Great-Britain (2013)
Warwick University, United Kingdom of Great-Britain (2016)

Fellow of IEEE (1998), SIAM (2009), AMS (2013)

Selected Academic Services and Functions:

1997 to 2001 Director; Program in Applied and Computational Mathematics, Princeton University
1992 to 1995 Member, Board of Governors for Inst. for Mathematics and its Applications, Minneapolis, USA
1993 to 1997 Member, Board of Governors for Mathematical Sciences Research Institute, Berkeley, USA
1996 to 1999 Member, Mathematical Sciences Education Board of the Natl Research Council's Center, USA
1997 to 2000 Member, United States National Committee on Mathematics
2004 to 2008 Member, Editorial Board for the Princeton University Press
2004 to 2010 Member, Program Committee for Alfred P. Sloan Research Fellowship in Mathematics (USA)
2004 to 2006 Member, Abel Prize Committee
1993 to 2001 Member of numerous American Mathematical Society (AMS) prize and other committees
2001 to 2004 Vice President of American Mathematical Society
1998 to 2008 Editor, Journal of American Mathematical Society (Managing Editor from 2004 to 2008)
2011 to 2014 President, International Mathematical Union

Publications:

at URL <https://services.math.duke.edu/~ingrid/publications>