

## Employment

### Professor emeritus

Office of the President  
Technical University of Denmark  
Kgs. Lyngby, Denmark  
10 Jan 2017 → present

## Further information on positions

Since 2018 Professional board member, consultant. 2017-18 Special Advisor, Office of the President, DTU. 2009-17 Senior Vice President and Dean of Graduate Studies and International Affairs, DTU. 2006-09 Head of Department, Department of Mathematics, DTU. 1996-2009 Professor, Dept. of Mathematics, DTU. 1995-97 Director of Ph.D.-studies, DTU (Dean of the Graduate School). 1989-92, 98-01 Chairman, Dept. of Mathematics, DTU. 1983-96 Assistant prof., Associate prof., Docent, Dept. of Mathematics, DTU. 1981-82 Research fellow, Brown University, Providence, RI, USA (Rotary fellow).

## Qualifications

1995 dr. techn., Technical University of Denmark  
Ph.D. (lic.techn.), Technical University of Denmark  
1980 → 1984  
M.Sc. (cand.scient.) (mathematics/physics), University of Copenhagen, Denmark  
1974 → 1979

## OTHER POSITIONS

2018- Chairman of the board, Frederiksberg Gymnasium (public High School) 2018- Consultant, NTNU, Norway. 2017- Member of the board of Grethe og Werner Parthums Foundation (charitable foundation). 2016- Member of the board of Fondation Idella (charitable foundation). 2012- Member of the board of the COWI Foundation (vice-chairman & chairman of evaluation committee, since 2013, member of the finance committee since 2018). The Foundation is majority owner of COWI, and it funds research projects in engineering (in-the-large). 2011-14 President (vice-president 2009-11), Danish Academy of the Technical Sciences (ATV). 2010-18 Member, Danish board, Sino-Danish Center for Education and Research, Beijing (SDC). 2010-18 Member, Joint Managerial Committee, SDC. 2003-07 President, International Society of Structural and Multidisciplinary Optimization (ISSMO). 2002-05 Chairman, Think-tank, Danish Academy of the Technical Sciences. 2000-12 Member, EC, Congress Committee, Int. Union of Theoretical and Applied Mechanics. 1995-2001 Member of the Industrial Ph.D.-committee, Danish Academy of Technical Sciences. 1994-2003 Vice chairman, executive committee, Denmark's Committee for Mathematical Instruction. 1993-2011 Member, Executive Committee, ISSMO (vice-president 1999-03).

## RESEARCH and TEACHING

Strong emphasis on developing the didactics of the teaching in mathematics at all school levels. The author of several textbooks. Has advised 21 Ph.D. students and 15 Post-docs. Research in the areas of design optimization and computational mechanics. Publications with more than 30 international collaborators in eight countries. Number of citations (as of June 2020) in ISI (WoS): > 14000, H-index= 32 (all publications including books); Google Scholar: > 27500, H-index=40.

## HONORS and AWARDS

2018 G.A. Hagemanns Gold Medal for Scientific Achievements. 2010 Dr.h.c., Universié de Liege, Belgium. 1997 Villum Kann Rasmussens Award (the largest Danish award in the technical sciences). 1992 STATOIL (Now Equinor) Prize for technical research. 1986 Direktør P. Gorm-Petersens Award for young scientists.