

Curriculum Vitae for Carsten L. Petersen

Born October 9, 1961, married, three children

Ternevej 45
4000 Roskilde, Denmark
thiele.ruc.dk/~lunde**Employment and education**

- 2009 – assoc. prof (lector MSK), Department of Science and Environment (INM) Roskilde University (RUC) (formerly Department of Science, Systems and Models NSM).
- 1998 – 2009 assoc. prof, IMFUFA (Institute for Mathematics and Physics and their functions in teaching, research and applications) and NSM, RUC.
- 1996 – 1998 Assistant professor, IMFUFA, RUC.
- 1994 – 1996 Post doc at Inst. for Mathematics, The Technical University of Denmark (DTU)
- 1993 – 1994 Post doc at Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France
- 1993 PhD Århus University (AU), Advisors Henrik Stetkær and Bodil Branner (DTU)
- 1989 Cand. scient, AU. Advisor Henrik Stetkær .

Research grants, external funding and scholarships

- 2015 – 2018 PI of “Holomorphic Dynamics and Orthogonal Polynomials” a research project funded by DFF | Natur og Univers.
- 2008 – 2013 Participation in “Complex Methods in Dynamical Systems and Special Functions” (Danish Research Council)
- 1995 – 2006 Participation in “Geometry and Global Analysis and Applications” (Danish Research Council).
- 1994 – 1996 Postdoc fellowship from the Danish Research Council .
- 1993 – 1994 Postdoc fellowship from IHES.
- 1991 – 1993 PhD Scholarship from the Danish Research Council.
- 1990 – 1991 The Andersen Scholarship in Mathematics.
- 1989 – 1990 Introductory PhD Scholarship from the Research Academy AU.
- Visiting positions: (> 1 month) Jan-June 2000, Cornell University, Sep-Dec 2003, CNRS/Institut Henri Poincaré Paris, Jan-Mar 2004, IHES.
- Visiting positions: (1 month) MSRI, Berkeley May 1995, IHES July 1995, Univ. d’Orsay (1999) Univ. de Cergy each of the years 2001-2006, Fields Institute Toronto Canada March 2006. Univ. Paul Sabatier Toulouse, Feb-Mar and May-Jun 2007, May 2008, May 2009, May 2013.

Scientific qualifications and international relations

My research is focussed on holomorphic dynamics, which in an essential way uses notably complex analysis as well as a variety of mathematical disciplines. During the 1990-ties I focused on solving already posed problems. In this the early period of my career I worked mainly on solo-projects, establishing myself as an independent researcher on the international arena. The absolute highlight being my paper [P4]. Since the late 90-ties I have shifted towards collaborations with international colleagues and formulation of new research questions. The paper [P10] is the first major such result. In the 00-s I have taken up organization and project leadership.

I have given lectures at numerous conferences, universities and research institutions. Latest at the University of Angers France, Fields Institute Toronto and Lunds University. Others include Stony Brook University and CUNY graduate Center New York, Academy of Mathematics and Systems Sciences within the Chinese Academy of Science, Beijing, Fudan University in Shanghai and NanJing University, Polish Academy of Sciences Bedlewo, Scuola Normale Superiore di Pisa, Cortona. Scuola Normale Superiore di Pisa

Grant application reviewer for foreign grant awarding boards.
External examiner of PhD thesises and supervision of masters and bachelor students.

Academic leadership

I am currently PI of a DFF | Research project 1.

I was leader (2007-2010) of the Danish-Swedish node of the EU RTN (Research Training Network) CODY (Conformal Structures and Dynamics).

CODY homepage : <http://www.warwick.ac.uk/cody/cody-home.htm>

I have for the last 15 years (except 2015) organized an annual international workshop and Ph.d. course on holomorphic dynamics with 15-45 participants each.

(see <http://thiele.ruc.dk/~lunde/Monodromy> for latest workshop and Ph.d. course with links to previous ones.)

I have co-organized various international workshops and conferences. The latest was a workshop at Banff International Research Station (Canada) co-organized with Epstein and Cheritat: Perspectives on Parabolic Points in Holomorphic Dynamics at BIRS, Mar-Apr 2015.

(see <http://www.birs.ca/events/2015/5-day-workshops/15w5082>)

I am the leader of mathematical studies at RUC since 2011 (studieleder for matematik på RUC).

Scientific focal areas

Holomorphic dynamics, complex analysis, geometric function theory, general dynamical systems and their applications in biology and chemistry.

International relations

My scientific network is global including all continents, but Australia, and spanning almost 20 nations.

Supervision of Ph.D students and Postdocs

Supervised one Postdoc and 4 ph.d students of which the last three PhD's and the Postdoc are women.

Christian Henriksen	PhD DTU 2000 (co-superv. assoc. prof. Bodil Branner).
Eva Uhre	PhD RUC 2009.
Luna Lomonaco	PhD RUC 2012.
Asli Deniz	PhD RUC 2013 (joint ph.d. degree RUC and Univ. de Barcelona co-supervisor assoc. prof. Nuria Fagella).
Anja Kabelka	Postdoc RUC, 2008-2009 (one year).