

Heiner Linke
Lund University



EDUCATION

1997 PhD, Solid State Physics, Lund University, Sweden
1992 Dipl. Phys. (MSc)
 Physics Department, Technical University Munich, Germany

CURRENT POSITION

2021 – 2023 Deputy Dean (prorektor), Faculty of Engineering (LTH), Lund University
2009 - Professor of Nanophysics, Physics Department, Lund University

PREVIOUS POSITIONS

2005 – 2009 Associate Professor (with Indefinite Tenure)
 Physics Department, University of Oregon, USA
2001 - 2005 Assistant Professor (Biophysics and Nanophysics, tenure track)
 Physics Department, University of Oregon, USA.
1998 - 2001 Australian Research Council Postdoctoral Fellow
 School of Physics, University of New South Wales, Sydney, Australia.

FELLOWSHIPS AND AWARDS

2004 Richard A. Bray Faculty Scholar in Arts and Sciences (University of Oregon).
2003 Faculty Early Career Development Award (CAREER), National Science Foundation,
 USA (674 k USD for four years of research).
2000 was offered a 6-year Swedish Research Council Fellowship (*Rådsforskartjänst*) in
 Quantum Chaos (declined)
1998 - 2001 3-year postdoctoral fellowship awarded by the Australian Research Council.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Supervision of graduate students as primary advisor: 14 graduated, 4 in progress

Tammy Humphrey, Ph.D. in 2003, then Marie-Curie Fellow with M. Büttiker, Geneva; • Erin Craig, Ph.D. in 2008, then postdoc with A. Mogilner at UC Davis; • Brian Long, Ph.D. in 2008, then postdoc with Tania Vu, OHSU, Portland, Oregon. • Eric Hoffmann, Ph.D. in 2009, then Humboldt fellow with J. Kotthaus, CeNS, U Munich. • Ben Lopez, Ph.D. in 2010, then postdoc with M. Valentine, UC Santa Barbara. • Nathan Kuwada, Ph.D. in 2010, then postdoc at U Washington, Seattle. • Natthapon Nakpathomkun, Ph.D. in 2010, then lecturer at Thammasat University, Thailand; • Jason Matthews, Ph.D. in 2011, then postdoc at University of Oregon; • Mercy Lard, Ph.D. in 2014, then postdoc Lund Univ; • Sofia Fahlvik Svensson, Ph.D. in 2014, then Aspect Photonics; • Cassandra Niman, Ph.D. in 2014, then postdoc with S. Reck-Peterson, UC San Diego; • Artis Svilans, PhD in 2018; • Damiano Verardo, PhD in 2018, then AligND Systems AB; • Frida Lindberg, PhD in 2019, then postdoc at Heidelberg University.
Current: Jonatan Fast, Ivan Unkssov, Pradheebha Surendiran, Rubina Davtyan.

Postdoctoral researchers: total of 14 since 2009

Dr. Jingyuan Zhu (since 2018); Dr. Roman Lyttleton (since 2018); Dr. Steven Limpert (2016-2018, then First Solar); Dr. Anders Kyrsting (2016-2018, then Kaleida Technology); Dr. Adam Burke (2014-2016, then Asst. prof. Lund Univ); Dr. Liselotte Jauffred (2014-2015, then Asst. prof. U Copenhagen); Dr. Phillip Wu (2010-2012, then postdoc Stanford U); Dr. Martina Balaz (2009-2012); Dr. Jason Matthews (2012, now Lincoln Electric); Dr. Johanna Generosi (2010, then U Copenhagen), Dr. Ann Persson (3/2006 – 5/2009, now Bombardier), Dr. Greg Gemmen (8/2008 – 11/2009; then Scripps San Diego), Dr. Gerhard Blab (8/2008 – 8/2009, now Asst. Prof., Utrecht), Dr. Erin Craig (9/2008- 3/2009, now Assoc. Prof. Centr. Wash. Univ.).

TEACHING ACTIVITIES (selection)

2019, 2020 Project Nanoengineer (3rd year nanoscience students), Lund University

2012 - 2018 Concepts of Quantum Physics (1st year physics students), Lund University
2010, 2011 Quantum Phenomena in Nanoscience (3rd year nanoscience), Lund University
2008, 2009 Biophysics (3rd year physics and chemistry students), Univ. of Oregon, USA
2001 – 2008 Physics 1, 2 and 3 (1st year physics students), Univ. of Oregon, USA

ORGANISATION OF SCIENTIFIC MEETINGS (selection)

2021 Scientific co-chair (one of four), 70th Lindau Nobel Laureate Meeting (expected: about 75 Nobel laureates and 600 students from 80+ countries), June 28 - July 3, online
2019 Program Chair, IVC-21, Malmö, Sweden. 800 abstracts and participants
2016 Co-chair, Biophysical Society (BPS) Thematic Workshop: *Engineering Approaches to Biomolecular Motors: From in vitro to in vivo*. Vancouver, Canada
2012 Chair, *Nobel Symposium on Nanoscale Energy Converters*, Örenäs, Sweden.
2010 - 2012 Co-Chair, Symposia at MRS Meetings, Spring 2008, Fall 2011, Spring 2012.
2005 Chair, *Nobel Symposium on Controlled Nanoscale Motion in Biological and Artificial Systems*, Bäckaskog, Sweden.

INSTITUTIONAL RESPONSIBILITIES (selection)

2013 - 2020 Director of NanoLund (Centre engaging 50+ research groups in three faculties).
2009 – 2012 Deputy Director, Nanometer Structure Consortium (now NanoLund), Lund University
2009 – 2012 Head of Division of Solid State Physics (\approx 80 employees), Lund University, Sweden
2006 - 2009 Associate Director, Materials Science Institute, University of Oregon, USA
2006 – 2007 Chair, Curriculum Committee, College of Arts and Sciences

COMMISSIONS OF TRUST (selection)

2019 Selection Panel, Young Investigator Grants, Helmholtz Association of German Research Centers, Berlin, Germany
2018 Chair, Evaluation Panel for *Chemical engineering and physics*, Aalto University Research, Art and Impact Assessment, RAI 2018, Finland.
2018 Program Reviewer for *Energy efficiency, materials and resources (EMR)* (comprising five Helmholtz Institutes), Helmholtz Association, Berlin, Germany
since 2016 Committee for the Nobel Prize in Chemistry (7 members)
2008 Nanotechnology and Nanobiotechnology Review Panel, National Institutes of Health, USA
2006 Biological Physics Review Panel, U.S. National Science Foundation (NSF), USA

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2014 – Elected Member of the Royal Swedish Academy of Sciences
2000 – German Physical Society, American Physical Society, Biophysical Society

MAJOR COLLABORATIONS

- Coordinator, ERC Synergy Grant, European Research Council (2021 – 2027, 10 M€)
- Main PI, Swedish Research Council Research Environment *Single molecule bioanalytical sensing for precision cancer diagnostics* (2020- 2025, 1.7 M€)
- Coordinator, Knut and Alice Wallenberg Project *Nanothermodynamics for optoelectronic semiconductor devices* (2017 -2021, 4.7 M€)
- Coordinator of four EU projects: Marie Curie ITN project PhD4Energy (2014-2018, 3.2 M€), FET project ABACUS (2014-2016, 1.7 M€); FET Proactive project Bio4Comp (2017 – 2022, 6.1 M€); Marie Curie Cofund project for doctoral students, GenerationNano (2020 – 2024, 1.5 M\$)
- Lead investigator of a Human Frontiers Science Program (HFSP) collaboration on synthetic molecular motors. Partners: Univ. of Oregon, SFU Vancouver (Canada), Univ. Bristol (UK) and UNSW Sydney (Australia) (1.3 M USD for 2008 – 2010).
- Lead investigator of an international NICOP collaboration funded by the U.S. Office of Naval Research (ONR) and ONR-Global. (600k USD for 2005 – 2008).

PUBLICATIONS

189 peer-reviewed publications, $h = 36$, 5171 citations (*Web of Science*, 3 May 2021)
> 100 invited talks at conferences and workshops; > 70 invited seminars and colloquia