

# Curriculum vitae

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## Education

2008/09/21 Ph.D. in microsystem packaging, University of Aalborg, Denmark. Title of thesis: "Reliability of polymer adhesive and coating materials for microsystem packaging".  
1991/08/14 M.Sc. in materials physics and chemistry, University of Aarhus, Denmark.

## Employments

2020/09/01 Senior Researcher; Danish Technical University (DTU), Department of Photonics Engineering, Fiber Sensors and Supercontinuum group.  
2017/10/01 Tenure track Researcher; Danish Technical University (DTU), Department of Photonics Engineering, Fiber Sensors and Supercontinuum group.  
2016/07/24 EU Horizon 2020 Coach; The Executive Agency for Small and Medium-sized Enterprises 2017/2/28 (EASME).  
2015-2017 Postdoc; Danish Technical University (DTU), Department of Photonics Engineering, Fiber Sensors and Supercontinuum group.  
2011-2015 R&D Engineer; Medtronic R&D Diabetes Denmark.  
1998-2011 R&D Engineer; DELTA Danish Electronics, Light & Acoustics; Department of Microelectronics, Sensors R&D.  
1994-1998 R&D Engineer; Grundfos, Department for Sensors R&D.  
Physics / chemistry teacher, a one-year temporary position at VUC Djursland.  
1991-1994 Researcher (EU- scholarship); Aarhus University, Institute of Physics and Astronomy (IFA), Department for thin films and Tribology.

## Activities / responsibilities

### *DTU Fotonik*

2021 Manager for three chalcogenide glass chemical labs.  
2020 PI in DTU's part of granted project "GeoZense" with Pisco ApS as project leader.  
2018 Nano materials responsible regarding Work Environment.  
2017-2019 Lead of granted project: "Biochemical plastic optical fiber sensors for fish farms".  
2017-2018 Chairman of the Board, Danish Optical Society (DOPS).  
2017 Chemistry Work Environment Representative (WER).  
2017 Chemical lab. manager.  
2016 Responsible for disposal of chemical waste.  
2016-2018 Danish Optical Society (DOPS) Board member.  
2016/7/24 Coaching in the EU CoachCom2020 project under the EU Horizon 2020 Executive Agency for Small and Medium-sized Enterprises (EASME): This coaching community aims at enhancing the impact of the Horizon 2020 SME instrument.  
2015/7/1 Research and teaching within micro-structured Polymer Optical Fiber (mPOF) bio/chemical sensors.

### *Medtronic*

2011-2015 Reliable packaging of POF blood glucose sensor in close collaboration with American colleagues, California, Northridge. Focus on: Materials, processes, design and tests for high performance POF bonding to a polymer hollow fiber membrane containing a glucose detecting biochemical assay.

### *DELTA*

1998-2011      Microsystem / sensor packaging R&D in several consultancy and national / international projects.  
2010            Journal Reviewer: Sensors and Actuators A: Physical  
                  Appointed censor 2010 - 2014 at DTU.  
2008            Introduction of students to the DELTA packaging clean room facilities.  
2006            Journal Reviewer: Member of the Editorial Board for Sensors & Transducers Journal ISSN 1726-5479.  
2003            Technical project leader in the national project Mikro Nano Production (MiNaP).  
2002-2009      Supervision of Ph.D. and M.Sc. students.  
2001-2004      Posted at "Packlab", CAT, DTU, Kgs. Lyngby, Denmark with responsibility for packaging activities in the project SUM (Collaboration on development of microsystems) with participants from DELTA, the Microelectronics Centre, Danfoss A/S, Grundfos A/S, and Sonion A/S.

*Grundfos*  
1994-1998      Microsystem packaging in the national project "Materials for advanced micromechanical packaging".

*Århus University*  
1991-1994      Research in x-ray strain measurements on curved surfaces and tribology of silicon surfaces.

### Publications

ORCID: [0000-0003-2776-6981](https://orcid.org/0000-0003-2776-6981)

61 publications in journals, conference / workshop proceedings, books, an encyclopedia and patents.

ISI Web of Science number of publications/citations/h-index/reviews = 55/197/10/10:

<https://publons.com/researcher/2370627/jakob-janting/>

Google Scholar number of publications/citations/h-index = 61/483/12:

<https://scholar.google.com/citations?user=DrRHAPQAAAAJ&hl=en>

### Scientific focus

microstructured Polymer Optical Fiber (mPOF) bio/chemical sensors • Polymers • Micro optical interconnection  
Harsh environment micro/nano sensor R&D • MEMS, NEMS, MOEMS packaging / encapsulation • Transducers  
Microtechnology • Design for manufacturing • Microsystem / sensor failure analysis • Materials characterization  
Diffusion • Biocompatibility • Corrosion science • Adhesives • Nanoscience • Surface preparation for optimal  
bonding • Mathematical / physical modelling • FEM • DOE • High reliability microelectronics design

### Granted project funding

"GeoZense", a three years project funded by the Green Development and Demonstration Programme (GUDP).

Funding: 7.9 mill. kr., 4 mill. kr. for DTU Fotonik. Project lead: Pisco., J. Janting PI at DTU. Duration 2021-2023.

Partners: Pisco, DTU Fotonik, DTU Health Tech, Atlantic Sapphire Denmark, Aquacircle, Mermaid Seasystems.

"Biochemical plastic optical fiber sensors for fish farms", a two years project funded by the European Maritime and Fisheries Fund (EMFF) and The Ministry of Environment and Food of Denmark, The Danish Fisheries Agency.

Funding: 2.7 mill. kr. Project duration 2017-2019. Partners: DTU Fotonik, Pisco, AquaCircle. 1 PhD student in this project is co-funded by DTU Fotonik.

### Selected larger national and international projects participated in

Training & Research In Polymer Optical fibre grating sensor Devices (TRIPOD) under the People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme FP7/2007-2013/, CoachCom2020, DEP, MiNaP,  $\mu$ KAP, MAST, MSC, HISTACK, SUM, EU BRITE/EURAM 1 project BREU0435.

### Teaching

Supervisor of one Postdoc 2021-2023, one PhD 2017-2020 and one Bachelor 2019 (grade: 12). Co-supervised 6 earlier PhD projects.

**Personal information:** Birthday: October 1, 1964. Marital status: Married. Children: 3