

## Curriculum vitae of Ulf R. Pedersen

Family name, First names: Pedersen, Ulf Rørbæk  
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- 2018-present** Associate Professor of Physics,  
Department of Science and Environment, Roskilde University, Denmark.
- 2014-2017** Senior postdoc (principle investigat; own grant),  
Department of Science and Environment, Roskilde University, Denmark.
- 2011-2013** Postdoc,  
Institute of Theoretical Physics, Vienna University of Technology, Austria,  
Supervisor: Gerhard Karl,  
Faculty of Physics, University of Vienna, Austria,  
Supervisor: **Christoph Dellago**.
- 2009-2011** Postdoc (individual grant from the Danish Research Council)  
Department of Chemistry, University of California Berkeley, USA,  
Supervisor: David Chandler. (No joint publications but this stay was crucial for my publications)

### Education

- 2006-2009** Ph.D. in Physics,  
Department of Science and Environment, Roskilde University, Denmark,  
Title of Ph.D. thesis: *Long-time simulations of viscous liquids - from strong correlations to crystallization*.  
Supervisor: Thomas B. Schrøder.
- 2003-2006** Master in Physics & Chemistry,  
Department of Science and Environment, Roskilde University, Denmark.  
Title of Master thesis: *Molecular packing in phospholipid bilayers studied by molecular dynamics simulation and small angle X-ray scattering*.  
Supervisors: Peter Westh and Dorthe Posselt

### Grants

- 2014** Villum Foundation's Young Investigator Program, 4 years, €540.000.  
Department of Science and Environment, Roskilde University, Denmark.
- 2009** Individual postdoc grant from The Danish Council for Independent Research, 2 years, €130.000.  
Department of Chemistry, University of California Berkeley, USA.

### Supervision

- 2019-present** Currently supervising a Ph.D. student, Eman Attia.  
Department of Science and Environment, Roskilde University, Denmark.
- 2014-2017** 2 postdocs, Lorenzo Costigliola & Alejandro Sanz.  
Department of Science and Environment, Roskilde University, Denmark.
- 2006-2009** Supervision of seven student projects on bachelor and master level.

## Publication record

I am coauthoring 38 peer reviewed publications. Several publications appeared in high-impact journals such as Nature Physics, Nature Communication, and Physical Review Letter . Other manuscripts are published in leading international peer-reviewed journal such as SciPost Physics, Physical Review B, the Journal of Chemical Physics, Journal of Physical Chemistry B, Journal of Non-Crystalline Solids and Phys. Rev. E. Here is a summary:

- 38 peer reviewed publications,
- 2 single author papers,
- 13 as corresponding author,
- 19 as first author,
- 2538 citations (Google Scholar),
- h-index of 24 (Google Scholar), and
- i10-index of 30 (Google Scholar).
- Reviewer for Nature Communications, Physical Review Letters, The Journal of Chemical Physics, and Physical Review E.

## Teaching activities

All at the Department of Science and Environment, Roskilde University, Denmark.

**2020-present** Course coordinator: Basic Course in Empirical Data. Introduced Python as general language for all science bachelors students at Roskilde University (first semester).

**2019-present** Instructor: Thermodynamics and Statistical Mechanics.

**2017-present** Teaching Associate: Scientific Computing.

**2016-2018** Teaching Associate: Quantum Mechanics.

**2014-2018** Teaching Associate: Basic Course in Experimental Methods.

## Institutional responsibilities

**2016-2018** Organizer of the weekly IMFUFA seminars about the research, applications, didactics and philosophy of mathematics and physics (Department of Science and Environment, Roskilde University, Denmark).

## International conference

- Invited speaker 3 times, contributed oral presenter 15 times and poster presenter 9 times since 2011.
- Organized the international conference “Multiplicity of Time Scales in Complex Systems: Challenges for Sciences and Dissemination” [The Royal Danish Academy of Science and Letters, Denmark, 23.-24. August 2021].

## Major international collaborations

**2007-present** Prof. Peter Harrowell,  
School of Chemistry, University of Sydney, Australia.

**2011-2015** Prof. Christoph Dellago and Prof. Georg Kresse,  
Faculty of Physics, University of Vienna, Austria.