

Curriculum Vitae

Klaus Koren

Associate Professor

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Austrian Citizen
Born on the 1st of July 1985
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Education

07/2012 **PhD in Chemistry**, Graz University of Technology (Austria)
12/2008 **DI in Technical Chemistry** (equivalent to Master of Science) Graz University of Technology

Work Experience

Since 05/2021 **Aarhus University, Department of Biology, Microbiology, WATEC**
Associate Professor

01/2018 – 04/2021 **Aarhus University, Department of Biology, Microbiology, WATEC**
Assistant Professor (tenure track)

12/2013 -11/2017 **University of Copenhagen, Department of Biology, Marine Biology**
Postdoctoral Fellow

10/2012 - 10/2013 **Institute of Science and Technology Austria (IST Austria)**
Postdoctoral Fellow

Scientific Focus

How do chemical conditions influence life and how does life itself influence the chemistry in its surroundings? I want to understand this complex interplay between biotic and abiotic processes in living systems. To do so I develop and apply specialized tools, so-called sensors, that enable high-resolution chemical measurements while influencing the system as little as possible.

The tools we have available determine which questions we can ask and as such shape our understanding of the world. I aim to push this understanding by providing fit-for-purpose tools to study complex biological samples like soils or biofilms across scales - from a single cell to entire ecosystems.

Selected Funding and Awards

2022 *Innovation foundation Denmark*; **Grand Solutions** (Co-PI) 16 Million DKK
BE-SALT: Biofouling and Scaling Eradication by Salinity Alteration in Water Desalination

2022 *Novo Nordisk Foundation*; **Exploratory Synergy grant** (PI), 5 Million DKK
Multiscale approach to investigate coral resilience - from single cells to ecosystems

2022 *Velux Foundation*; **Villum Synergy** (PI) 3 Million DKK

2022 *Aarhus University Research Foundation (AUFF)*; **Sabbatical grant**

2021 *Danish Agency for Higher Education and Science*; **International Network grant**,

2021 Winner of the **Fritz Feigl Prize** by the Austrian Society of Analytical Chemistry (ASAC)

2020 Selected as "**Rising Star in Sensing**" by the leading Journal ACS Sensors

2020 *Carlsberg Foundation*; **Infrastructure grant**

2019 *Novo Nordisk Foundation*; **project grant** (Co-PI), 2.9 Million DKK

2018 **DFF Sapere Aude starting grant**; career grant, single PI, 5.9 Million DKK
AmmoniSens Optical Ammonia Sensors for Water Monitoring

Teaching and Mentoring Experience

Lecturer of several Chemistry and Biology bachelor, Master and PhD courses (national and international)

Supervisor of 3 PhD-, 9 Master- and 8 Bachelor-theses

Current supervisor of 2 PhD students and 4 Postdoctoral Fellows

Scientific achievements

Author of **65** peer reviewed **scientific articles** (14 first author, 24 corresponding author); 1 patent
around 2000 citations, h-index: 26; i10-index: 45 (google scholar 9.12.2023)