

## NICOLE R. POSTH (Dr. rer. nat.)

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### WORK EXPERIENCE

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- 10/2017 **Assistant Professor, Villum Young Investigator**  
*Dept of Geosciences and Natural Resource Management (IGN), University of Copenhagen*
- 5/2017-9/2017 **Assistant Professor, Villum Young Investigator**  
*Nordcee-Dept of Biology, University of Southern Denmark (SDU)*
- 2016-2017 **Research funding advisor**  
*University of Southern Denmark, Support Office, Science (6 months)*
- 2013-2016 **Marie Skłodowska-Curie Fellow (IEF)**  
*NordCEE-Biology-SDU*
- 2011-2013 **DFG (German Research Council) Postdoctoral Fellow**  
*NordCEE-Biology-SDU*
- 2009-2011 **Post-doctorate researcher**  
*Center for Applied Geosciences (ZAG) University of Tübingen, Germany*
- 2000-2001 **Fulbright Teaching Scholar**  
*Austrian Fulbright Commission, Höhere Technische Bundeslehranstalt, Linz, Austria*

### EDUCATION

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- 2009 (3/19) **Doctorate, summa cum laude** Geomicrobiology,  
*Center for Applied Geosciences (ZAG), University of Tübingen, Germany*  
*Dissertation: The potential role of anoxygenic Fe(II)-oxidizing photoautotrophs in the deposition of Precambrian Banded Iron Formations, Supervisor: A. Kappler*
- 2004 **MSc, cum laude** Applied and Environmental Geosciences  
*Helmholtz Center for Health & the Environment (GSF), Munich / ZAG Tübingen*  
*Thesis: Contaminant threshold concentrations in bacterial mineralization of individual petroleum hydrocarbons, Supervisors: R.U. Meckenstock, C. Griebler*
- 2001-2002 **Law Merit Scholar** *University of Miami School of Law Florida, USA*
- 2000 **BSc, cum laude** Environmental Science, *Tufts University, Massachusetts, USA*

### RESEARCH INTERESTS

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Biogeochemical cycling and element transport, cell-surface interactions, (micro)plastics, biogenic/abiogenic mineral diagenesis, microbial physiology, historical microbiology proxies

**Current project:** Cycling in the Plastisphere: the biogeochemical fate of marine (micro)plastics

## **RELEVANT FIELD EXPERIENCE/MANAGEMENT**

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Lake La Cruz, Spain, microbial C, Mn, Fe & S cycling (**excursion leader N. Posth**, 9/2014)  
Milos, Greece, marine microbial C, Mn, Fe & As cycling (excursion leader E. Chi Fru, 6/2014)  
Lake Cadagno, Switzerland, microbial C & S cycling (**excursion leader N. Posth**, 2012, 2013)  
Benthic research at Sea, RV Dana, Reykjavik – Hirtshals (Cruise leader: H. Røy, 9/2012)

## **HONORS/FUNDING [TOTAL FUNDED RESEARCH AS PI = 12,083,933 DKK]**

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Villum Young Investigator Programme Grant <i>Cycling in the Plastisphere: the biogeochemical fate of marine (micro)plastics</i> <b>primary applicant</b> [9.700.000 DKK, 1 304 939 €]	2017-2021
Marie Skłodowska-Curie Individual Fellowship (IEF) <b>primary applicant</b> [230 810 €]	2013-2016
German Research Foundation Postdoctoral Research Fellowship <b>primary applicant</b> [78 250 €]	2011-2013
University of Tübingen Young Researcher Prize, funded by Commerzbank <b>recipient</b> [5 000 €]	2009
Wilhelm Schuler Foundation Research Grant, <i>Organic compounds as potential biomarkers of life on early earth</i> <b>primary applicant</b> [5 500 €]	2009
German Research Foundation Grant (DFG) with A. Kappler, Uni Tübingen	2009-2012
Paul Scherrer Institute, Swiss Light Source, TOMCAT proposal	2007-2008

## **TEACHING AND SUPERVISION**

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Biogeochemistry, Sino-Danish Center for Education and Research, Beijing	11/2014
Microbiology BB509 (with A. Treusch, lecture/lab), SDU	2013/2014
Graduate student supervisor (C. Jensen, C. Rønne), SDU	2013-2014
Graduate student supervisor, (F.Hegler, S.Huelin, S.Kleinert, E.Wellmann) Tübingen	2005-2010
Teaching assistant, Uni Tübingen, Geomicrobiology, Soil Mechanics	2003-2006
Fulbright teaching scholarship HTB (technical gymnasium), Linz, Austria	2000-2001
Teaching assistant, Tufts University, German I and II	1998-1999

## **PROFESSIONAL ENGAGEMENT/PUBLIC OUTREACH (select)**

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*Invited reviewer:* Nature Geoscience, Nature Communications, FEMS Microbiology Letters, Geobiology, GCA, Geology, FEMS Microbial Ecology, Astrobiology, Frontiers in Microbiology

*Member:* European Association for Geochemistry (EAG), The Danish Microbiological Society (DMS), Earth Science Women's Network, International Society for Microbial Ecology (ISME), Society of Environmental Toxicology and Chemistry (SETAC)

*Oral presentations* at international/national conferences/workshops (Goldschmidt 2013, GRC Origins of Life 2006, Arsen 2009-UFZ, Lake Cadagno 2013, Distinguished Lecture Series SDU, 2015. *Invited seminars:* Uni Vienna, Uni Konstanz, Uni Erlangen, Stockholm University. *Seminars:* Tübingen, SDU, Jacobs Uni Bremen, Helmholtz Center for Health & the Environment (GSF).

*Conference Chair:* Gordon Graduate Research Seminar Origins of Life 2008, 2010

*Conference session convener:* Goldschmidt 2013, Life in Ferruginous Settings: Building the Bridge between Sedimentology and Geomicrobiology

*Training/popular talks:* Marie Skłodowska-Curie applicant training 2014-17; Pedagogy Masters-Center for Science & Math. Education SDU, 2014-15, *German TV:* 2009“Nano, 3 Sat Eisen könnte dem Leben Energie verliehen haben“, Interview TV2, Ny Viden “Microbes in the Plastisphere” 2017

**LANGUAGES:**

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English (fluent), German (fluent), Danish (intermediate)