

Curriculum vitae Franziska Kupprat

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Birth date and place: 22.07.1988 in Cologne
Nationality: German



EDUCATION

Leibniz-Institute of Freshwater Ecology and Inland Fisheries

Since July 2015 PhD student, Topic: The effects of skyglow on the physiology of fish
Supervision: Prof. Dr. Werner Kloas and PD Dr. Franz Hölker

University of Bremen, Germany

October 2011 – May 2014

Master of Science in Marine Biology, grade: 1.45 (very good)

University of Cologne, Germany

October 2008 – September 2011

Bachelor of Science in Biology, grade: 2.0 (very good)

WORK EXPERIENCE

Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI),

Bremerhaven, Germany

May 2013 – May 2014

Master's thesis: Determination of acute protein biosynthesis rates in the blue mussel *Mytilus edulis*: the role of hemolymph parameters in temperature-dependent growth

- **Supervision by Prof. Dr. Hans-Otto Pörtner and Prof. Dr. Wilhelm Hagen**
- **Co-supervision by Dr. Christian Bock**
- project development, experimental setup design, laboratory work, data analysis
- working on isolated tissues, ^1H and ^{13}C high resolution NMR spectroscopy, working with ^{13}C -labeled amino acids (phenylalanine), metabolic profiling, respiratory measurements isolated tissues, cytosol and protein extraction from tissue

Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI),

Bremerhaven, Germany

October 2012 – February 2013

Student Research Project: Temperature-dependent substrate preference and metabolism of Antarctic fish hepatocytes

- **Supervision by Dr. Christian Bock**
- ^1H HRMAS NMR spectroscopy, metabolic profiling of isolated cells (fish hepatocytes)
- working with ^{13}C -labeled substrates (glucose and palmitate)

Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI),

Bremerhaven, Germany

November 2011 – August 2014

Student research assistance in different projects

- metabolic profiling via ¹H HRMAS NMR spectroscopy of the Arctic Krill *Thysanoessa inermis* and *Thysanoessa raschii* (January to February 2014)
- incubation experiment (feeding and cleaning) of Polar cod *Boreogadus saida* at different temperatures and CO₂ concentrations (July to September 2013)
- growth analysis of juvenile tropical corals using image analysis (ImageJ) on photography (November to December 2011)
- metabolic profiling NMR spectroscopy of isolated gill tissue of the blue mussel *Mytilus edulis*

Alfred-Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI),

Bremerhaven, Germany

May 2011 – September 2011

Bachelor's thesis: The relationship between the presence of microendolithic organisms and the growth of the cold-water coral *Desmophyllum dianthus*

- **Supervision by Prof. Dr. Hartmut Arndt and Dr. Carin Jantzen**
- different invasive and non-invasive methods for growth determination of corals
- buoyant weight measurements

Seal Station, Friedrichskoog, Germany

August 2010 – October 2010

Internship

- feeding and veterinary examinations of pups of harbor seals and grey seals
- guided tours and talks for visitors

PUBLICATIONS

Peer-reviewed

Jantzen C, Laudien J, Sokol S, Försterra G, Häussermann V, **Kupprat F**, Richter C (2013) *In situ* short-term growth rates of a cold-water coral. *Marine and Freshwater Research* 64(7) 631-641

RECEIVED GRANTS

- Travel Grant (700 Euros) for a research expedition to Chile from the German Academic Exchange Service (DAAD)

SKILLS

- Microsoft Office (Word, Excel and PowerPoint): proficient knowledge
- "R": general knowledge
- Scuba Diving Certificate (CMAS*, equivalent to PADI Open Water)

LANGUAGES

- German: mother tongue/C2
- English: C1 (Cambridge Certificate of Advanced English in 2006, TOEFL computer-based test in 2011: score: 112 out of 120)
- Spanish: B1/B2