

# STEPHAN PFLUGMACHER LIMA

## PROF DR

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To take care on our aquatic environment in a fast growing urban environment and developing methods to prevent damages and restore our waterbodies is most important for our common future. Linking fundamental science in ecotoxicology with applied aspects is my possibility to contribute to this.

### EXPERIENCE

SINCE NOVEMBER 2017

**MEMBER OF THE HELSINKI INSTITUTE OF SUSTAINABILITY SCIENCE (HELSUS)**

SINCE NOVEMBER 2017

**FULL PROFESSOR, UNIVERSITY OF HELSINKI**

Professor for Aquatic Ecotoxicology in an Urban Environment at the Faculty of Biological & Environmental Sciences

SINCE SEPTEMBER 2016

**HEAD OF THE JOINT LABORATORY OF APPLIED ECOTOXICOLOGY**

Korean Institute of Science & Technology (KIST Europe), Environmental Safety Group, Campus E 7.1, 66123 Saarbrücken, Germany

FROM 2010 - 2017

**FULL PROFESSOR, TECHNICAL UNIVERSITY OF BERLIN**

**PROFESSOR FOR ECOLOGICAL IMPACT RESEARCH & ECOTOXICOLOGY**

FROM 2012 - 2017

**SENATOR OF THE ACADEMIC SENAT AND ADVANCED ACADEMIC SENAT OF TU BERLIN**

FROM 2011 - 2012

**ACTING DIRECTOR OF THE INSTITUTE OF ECOLOGY OF TU BERLIN**

FROM 1996 - 2010

**SENIOR SCIENTIST AND GROUP LEADER**

**LEIBNIZ INSTITUTE OF FRESHWATER ECOLOGY & INLAND FISHERIES, BERLIN, GERMANY**

FROM 1996 - 2010

**PRIVATE DOCENT OF AQUATIC ECOTOXICOLOGY**

**HUMBOLDT UNIVERSITY OF BERLIN, GERMANY**

FROM 2001 - 2010

**SCIENTIFIC ASSISTANT OF THE DIRECTOR**

Leibniz Institute of Freshwater Ecology & Inland Fisheries

## EDUCATION

**1988 - 1993**

**DIPL. BIOL.**, UNIVERSITY OF ULM, ULM, GERMANY

Diploma thesis in cooperation with the Fraunhofer Institute of Atmospheric Research (IFU) Garmisch-Partenkirchen, Germany

**1993 - 1996**

**DR. RER. NAT.**, LUDWIGS MAXIMILIANS UNIVERSITY OF MUNICH, GERMANY

PhD thesis in cooperation with the GSF Neuherberg, Institute of Plant Pathology, Germany

**2001**

**DR. HABIL.**, HUMBOLDT UNIVERSITY OF BERLIN; GERMANY

## ACTIVITIES

- 152 international refereed publication (Web of Science)
- Board Member of several journals
- Frequent referee of high impact journals
- Frequent keynote speaker at international conferences
- **h-factor of 38**

## RESEARCH FIELDS

In the fundamental aspects in Ecotoxicology my interest are on biotransformation systems of natural toxins and xenobiotics in aquatic organisms, mainly in aquatic plants and invertebrates. Furthermore oxidative stress and antioxidative defense systems as early markers for environmental pollution. In the applied aspect of my research I combine the gained fundamental knowledge for the development of sustainable methods for water purification. I developed a system called "Green Liver System" using the ecological service aquatic macrophytes supply for water purification.

I conducted international projects in several countries of Europe, but also in Australia, PR China, South Korea, Brazil, Argentina, Bolivia, Kenya and South Africa.