

Curriculum Vitae, Florian Ulm

Personal information

Name	Florian Ulm
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E-mail	ulm.florian@gmail.com
Nationality	German
Date of Birth	5 th February, 1987
First language	German
Other languages	English: Writing, reading and verbal skills: Excellent Portuguese: Writing, reading and verbal skills: Good

Area of scientific activity

My main interests lie in soil nutrient cycling, soil organic matter degradation and plant-soil interactions. I am especially interested in the role of the soil microbial community in sustaining plant growth and ecosystem development. Apart from using ecophysiological methods, I worked with carbon, nitrogen and phosphorus cycling using natural abundance stable isotope tracing, extracellular enzyme assays and microplate methods to determine soil nutrients. I also have a background in molecular biology, such as cloning, immunohistochemistry and blotting techniques.

Education

A-level	Werner Heißenberg Gymnasium, Bad Dürkheim; 2006, Grade: 2,7 (ECTS Grade: B)
Bachelor of Science	Universität Kaiserslautern, Kaiserslautern; 2011, “B. Sc. in Life Sciences” Grade: 2,1 (“good”) (ECTS Grade: B) Bachelor thesis “Epigenetic regulation of gene expression in Paramecium tetraurelia“, laboratory assistance (May - November), Ecology department of the Universität Kaiserslautern, Kaiserslautern; 2010 Grade: 1,0 (ECTS Grade: A)
Master of Science	Universität Kaiserslautern, Kaiserslautern/ University of Lisbon, Lisbon; 2014, “M. Sc. in BioSciences” Grade: 1,0 (“excellent”) (ECTS Grade: A) Master thesis “Below ground processes of a native and an invasive legume as a driver for nitrogen distribution on community scale“ (in total ca. 12 months), University of Kaiserslautern, Kaiserslautern/ University of Lisbon, Lisbon; 2014, “M. Sc. in BioSciences” Grade: 1,0 (ECTS Grade: A)

Workshops and training courses

Practicals	Ecophysiological practical course (28 February - 28 April) in French Guiana, Nourages Nature Reserve; 2010 Grade: 1,0 (ECTS Grade: A) funded by “Deutscher Akademischer Austauschdienst”
Workshops	Participation in the course “Training school on stable isotopes and sampling issues” (30 October - 6 November) in Portugal, Lisbon; 2011. Funded by the COST action: ECOST-TRAINING_SCHOOL-ES0806-101011-009311 Workshop em Espécies Exóticas e Invasoras Em Portugal: Legislação, Ecologia e Controlo. FCUL, Lisboa, 16 June 2014

Participation in research projects

- 2012 Ecophysiological field trips as scientific assistant (1 February - 1 May) in Portugal, Coruche
- “Short-Term Scientific Mission” (1 May - 30 September) in Portugal, Lisbon. Funded by the COST action: ECOST-STSM-ES0806-010512-017110
- “Short-Term Scientific Mission” (1 - 31 October) in Portugal, Lisbon. Funded by the COST action: ECOST-STSM-ES0806-011012-023168
- Research in the context of the project “INvasive SPecies Evaluation, ConTrol & EDucation.NETwork” (1 November - 17 December) in Viçosa, Brazil. Funded by Marie Curie action: “International Research Staff Exchange Scheme” FP7-PEOPLE-2010-IRSES
- 2013 - 2014 Researcher and grant-holder in the project “In - Nitro: conceptualizing the effects of increased nitrogen availability in a Mediterranean ecosystem” (1 February 2013 - 31 December 2014) in Portugal, Lisbon. Funded by: FCT PTDC/BIA-ECS/122214/2010

Teaching and supervision

- 2011 Teaching and supervision in the practical course “Plant physiology/Phytopathology”.
Plant physiology department, Universität Kaiserslautern
- 2012 Supervision of a master project: “Impact of *Acacia longifolia* and *Stauracanthus spectabilis* on the nitrogen composition and the ecophysiological status of *Corema album* and assessment of soil parameters of both species”.
Centro de Biologia Ambiental. University of Lisbon.
- 2013 - 2015 Presentations in the courses “Ecologia e Gestão Ambiental” and “Biologia da Conservação”.
Centro de Biologia Ambiental. University of Lisbon.

Publications

Poster

Ulm F, Otte AM, Rascher K, Werner C, Unger S, Cruz C, Máguas C (2012) "Evaluation of factors that contribute to the spatial distribution of $\delta^{15}\text{N}$ under the invasion of dune systems by *Acacia longifolia*". Joint European Stable Isotope Users Group Meeting (JESIUM)

Ulm F, Otte AM, Rascher K, Werner C, Unger S, Cruz C, Máguas C (2012) "Mechanisms behind the spatial distribution of $\delta^{15}\text{N}$ patterns occurring after the invasion of dune systems by *Acacia longifolia*". 7th European Conference on Invasive Alien Species (NEOBIOTA)

Ulm F, Tolentino G, Nunes C, Hellmann C, Cruz C, Meira-Neto J, Máguas C (2014) "Comparing the influence of invasive *Acacia* species and native legumes on the soil and the foliar nitrogen status of the surrounding vegetation: A useful tool to detect early invasions?" Adaptation Frontiers: Conference on European Climate Adaptation Research and Practice (CIRCLE 2)

Ulm F, Gouveia C, Dias T, Cruz C (2014) "N enrichment decouples the relation between N and P cycling in the rhizoplane but not in the bulk soil: evidence from an N-manipulation field experiment in a Mediterranean ecosystem" European Geosciences Union General Assembly (EGU), Geophysical Research Abstracts Vol. 16, EGU2014-16375

Ulm F, Gouveia C, Dias T, Cruz C (2014) "Enhanced nitrogen availability has an impact on extracellular enzyme activity in the roots of *Cistus ladanifer* but not on the surrounding soil". 18th Nitrogen Workshop. The nitrogen challenge: Building a blueprint for nitrogen use efficiency and food security (INIAV)

Ulm F, Gouveia C, Dias T, Cruz C (2014) "Nitrogen fertilization induces P depletion and shifts P acquisition from the root surface of *Cistus ladanifer* into the surrounding bulk soil." XV Simpósio Luso-Espanhol de Nutrição Mineral das Plantas - Nutriplanta

- Oral Ulm F, Hellmann C, Cruz C, Máguas C (2013) “The Spatial Influence of the invasive legume *A.longifolia* on the nutrition status and dynamics of the surrounding vegetation: The role of rhizosphere.” The 12th International EMAPi Conference ‘Ecology and Management of Alien Plant Invasions’ (EMAPi)
- Fernandes P, Correia O, Ulm F, Ramos M, Antunes C, Werner C, Rascher K, Hellmann C, Máguas C (2014) “The ecological and functional impact of *A.longifolia* in sand-dune ecosystems: What is the influence of climate and forest management?” Workshop em Espécies Exóticas e Invasoras Em Portugal: Legislação, Ecologia e Controlo. FCUL, Lisboa, 16th June
- Ulm F, Hellmann C, Cruz C, Máguas C (2014) “Acacia longifolia increases the nitrogen input into the surrounding plant community by acceleration of soil organic matter breakdown”. XV Simpósio Luso-Espanhol de Nutrição Mineral das Plantas - Nutriplanta
- Gouveia C, Ulm F, Dias T, Carolino M, Cruz C (2014) “In quest for phosphorus: The role of P solubilizing bacteria in helping plants accessing P in an N-enriched Mediterranean ecosystem” XV Simpósio Luso Espanhol de Nutrição Mineral das Plantas - Nutriplanta
- Publication (ready to be submitted) Ulm F, Hellmann C, Cruz C, Máguas C (2015). Working title: “Below ground processes of a native and an invasive legume as a driver for nitrogen distribution on community scale“

Awards

Book price in Germany, Kaiserslautern, 13th June 2014
“Recognition for his outstanding degree as Master of Science”

German Botanical Society (DBG) award, 17th November 2014 for the best master thesis in plant science at the University of Kaiserslautern.

Skills and competences

Social skills and competences

1 year development aid and teaching in a school in India, Andhra Pradesh, Visakhapatnam
Reference: Samata and Balamitra model school

3 years of community work (1 year as vice spokesman) in the student body of the Biology department, University of Kaiserslautern

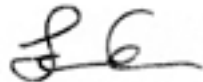
3 years as a student representative in the faculty council of the Biology department University of Kaiserslautern

1 year in Lisbon, Portugal with the ERASMUS program

Participation in several interdisciplinary urban development projects: "Reaction Lisbon 2013", "Proserpina", "HortaFCUL"

Technical skills

Programmes: Word, Powerpoint, Excel, Photoshop, Indesign, Illustrator, SPSS statistics
Programming languages: R (2 years experience)



Lisbon 20th September, 2014

Signature, location, date