

Alexander Kelsch

Curriculum Vitae

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Personal Details

Name Alexander Kelsch
Date of birth 22.12.1995
Nationality German

Work experience

- Jan. 2021 – now **PhD student**, *Institute for Bio- und Geosciences - Agrosphere (IBG-3), Forschungszentrum Jülich, Germany*
PhD student in the Germany-wide joint project "NH₃-Min" of the subgroup location West
- Jan. 2019 – Mar. 2019 **Research intern**, *Institute for Global Environmental Strategies (IGES), Hayama, Japan*
Literature research on the costs and benefits of invasive species and the sustainable use of mangrove forests

Education

- Sep. 2018 – Dec. 2020 **Degree programme: Global Change: Ecosystem Science and Policy**, *Joint degree obtained at University College Dublin, Ireland and Justus Liebig University Gießen, Germany*
Academic qualification: M. Sc. in Natural Sciences
 - German grade point average: 1.8
 - Thesis topic: *The cost of Meat: Pricing Animal Products According to GHG Emissions Saves Land and Combats Climate Change*
- Oct. 2015 – Sep. 2018 **Degree programme: Biology**, *Degree obtained at Justus Liebig University Giessen, Germany*
Academic qualification: B. Sc. in Natural Sciences
 - German grade point average: 2.3
 - Thesis topic: *Impact of scan interval of minirhizotron tubes on the result of root length growth in a permanent grassland*
- 2012 – 2015 **Abitur**, *Bundespräsident-Theodor-Heuss-Schule, Homberg, Germany*
 - German grade point average: 2.5

Sprachen

Deutsch **Native language**

English **Business fluent in spoken and written, TOEFL iBT score: 102 points in 2018, Master's programme abroad and work as a doctoral student in English**

Japanisch **Basic knowledge**

Skills

Operating systems Windows (very good), Linux (very good)

Applications R (very good), office applications (very good), \LaTeX (very good), reference managers such as Citavi, Mendeley, EndNote and Jabref (very good), WindTrax (very good), Gimp (good), Inkscape (basic knowledge), QGIS (basic knowledge)

Lab methods Operation of real-time gas measuring devices such as cavity ring-down spectroscopy and direct laser absorption spectroscopy, nitrite analysis with photometer, use of measuring electrodes for pH and NH_3 , microscopy, soil measurements for various physical and chemical parameters according to VDLUFA, determination of relevant crop parameters

Field methods Taking soil samples with Pürckhauer according to VDLUFA, NH_3 monitoring, experimental setup in an agricultural area, setup and operation of a weather station

Communication Various presentations at conferences and seminars, publication of articles in scientific journals, interviewing an Irish civil servant

Team work Supervision of a Master's student in his final thesis, supervision of interns, participation in a Germany-wide joint project, participation in courses on project management and the supervision of personnel

Hobbies & Interests

Playing guitar Classical guitar

Jogging and bodybuilding Mainly for health

Japanese Reading Japanese literature and scientific articles

Publications

- 2020 A. Kelsch et al., *Invasive alien species and local communities in socio-ecological production landscapes and seascapes: A systematic review and analysis*. Environmental Science & Policy

Konferenzbeiträge

- 2022 A. Kelsch et al., *CULTAN fertilization with urea ammonium sulfate: Impacts on field NH₃ emissions and N-use efficiency*. Oral presentation at N Workshop in Madrid, Spain
- 2023 A. Kelsch, M. Claß, M. Humza, N. Brüggemann, *Accuracy and sensitivity of NH₃ measurements using the Dräger Tube method*. Poster presentation at the Wageningen Soil Conference in Wageningen, Netherlands
- 2023 A. Kelsch et al., *Influence of incorporation- and injection techniques on NH₃ volatilization of urea based fertilizer*. Oral presentation at NH₃ Workshop in Hildesheim, Deutschland