



Curriculum Vitae



 Ariel Tasca
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Education

- 2022 – Present **Doctoral Thesis**
Thesis topic: „*Characterization of radicle root hair functions adding to a vigorous seedling establishment under adverse nutrient and water seedbed conditions*”
Technical University of Munich, Professorship of Crop Physiology
- 2019 – 2021 **Master of Science, Biology**
Technical University of Munich and Helmholtz Munich, Institute of Comparative Microbiome Analysis
Thesis topic: „*Stress induced responses of crops to climate change on marginal land*“
- 2018 **Certified research diver training** by the DGUV
- 2015 – 2019 **Bachelor of Science, Biology**
Technical University of Munich, Chair of Botany
Thesis topic: „*Untersuchungen zur Interaktion von Elementen der Abscisinsäure-Signaltransduktion in Pflanzenzellen*“

Experience

- 2022 – Present **Research Assistant**
Professorship of Crop Physiology, Technical University of Munich
- 2020 – 2021 **Guest Researcher**
Institute of Comparative Microbiome Analysis, Helmholtz Munich
- 2019 – 2020 **Research Intern**
Chair of Microbiology, Technical University of Munich
- 2019 **Research Intern**
Chair of Aquatic System Biology, Technical University of Munich

Poster and Oral Presentations

June 2024	Poster Presentation at the 12 th International Symposium of the International Society of Root Research (Leipzig) Title: Spatiotemporal Phosphorus Deficiency Responses in Wildtype maize (<i>Zea mays L.</i>) and its <i>root-hairless 3</i> Mutant
September 2023	Oral Presentation at the Annual Conference 2023 of the German Society of Plant Nutrition (Hohenheim) Title: Spatiotemporal Phosphorus Deficiency Responses in B73 Wild-Type Maize (<i>Zea mays L.</i>) and its Roothairless (<i>rth3</i>) Mutant
April 2023	Poster Presentation at the SFB 924 – Plant Biology of the next Generation Conference (Freising) Title: Spatiotemporal Phosphorus Deficiency Responses in B73 and Root Hairless <i>rth3</i> Maize Mutants
October 2022	Poster Presentation at the Annual Conference 2022 of the German Society of Plant Nutrition (Raitenhaslach) Title: Characterization of radicle root hair functions adding to a vigorous <i>Zea mays</i> seedling establishment under adverse nutrient and water seedbed conditions

Awards

April 2023	“Best Elevator Pitch” at the 9 th HEFagrar PhD Symposium
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Skills

Expertise	Molecular Plant Physiology, Microbiology, Ecotoxicology, Bioinformatics, Data Science, Photography, Teaching, Good Scientific Practice
Experiments	Transcriptome Analysis with RNA-Sequencing and qPCR, Physiological Experiments, ICP-MS, Photometry, Microscopy, Enzymatic, Ecological Mapping
Software	OS X, Microsoft, Linux, R, Photoshop, Lightroom. ImageJ, Inkscape, PowerPoint, Excel, Word, Origin, Zotero
Languages	Italian, French, Luxembourgish, German, English