

# Jiline Bernadette Tölle

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Freising, Germany



## Academic experience

07/2021 - present

### Research Assistant / Doctoral student

Professorship of Crop Physiology, Technical University of Munich

Doctoral Thesis: "Water usage and boron efficiency in *Brassica napus*"

- Identification of genetic loci for water usage and boron efficiency in rapeseed
- Effect of different boron fertilizers on the inflorescence under B-deficiency
- Effect of deficient B supply in rapeseed on plant-pollinator interaction

Project network „BayKlimaFit 2“ (Project 8) (<https://www.bayklimafit.de>)

## Education

10/2019 – 06/2021

### Agricultural System Sciences, M.Sc.

Technical University of Munich

**Diploma: Master of Science** (overall grade 1.2)

Thesis topic: "Influence of an early drought stress and the cultivation of catch crops on N uptake and nitrate leaching in lysimeter experiments using tracers"

(Supervisor: Prof. Dr. U. Schmidhalter)

04/2019 – 09/2019

### Agricultural and Horticultural Sciences, B.Sc.

Technical University of Munich

10/2016 – 03/2019

### Law Studies (state exam)

Ludwig Maximilian University of Munich

(university part of the state exam)

10/2014 – 09/2016

University of Passau (intermediate exam)

09/2011 – 09/2014

### Ecotrophology, B.Sc.

Christian Albrecht University of Kiel

**Diploma: Bachelor of Science** (overall grade 1.6)

## **Internships / research student**

03/2020	Chair of Plant Nutrition, TU Munich
01 – 06/2018 08/2017	meyer.rechtsanwälte, Law Firm for food law, Munich
12/2016 – 09/2017 09/2016	CMS Hasche Sigle, Commercial Law Firm, Munich
03/2016	Staff Unit Legal Affairs, Rechts der Isar Hospital, TU Munich
02/2015 – 06/2015	Centre for European Law at the University of Passau
07 – 10/2012	Ambulance for Prevention, Human Nutrition and Sports Medicine Rechts der Isar Hospital, TU Munich

## **Skills**

Expertise	Conducting plant trials in glasshouse and lab conditions, data analysis, scientific writing and publishing, teaching, organizing workshops and conferences, communication with stakeholders
Experiments	Phenotyping, physiological experiments, ICP-MS, fertilizer experiments, pollinator experiments, QTL analysis, lysimeter experiments, tracer ( <sup>15</sup> N, bromide), <sup>13</sup> C discrimination
Language	English (Cambridge CAE, Level C2)
Software	ImageJ, Inkscape, MS Office, OriginPro, Photoshop, R, Zotero

## **Membership**

2021 – present	Member of the German Society of Plant Nutrition (DGP e.V.)
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## Articles

### 2024

Tölle JB, Bienert GB (2024): Effiziente Nutzung von Wasser und Bor bei Raps – Optimale Borverfügbarkeit steigert die Trockenresistenz der Pflanze. *Der Pflanzenarzt*, Vol. 11-12, 6-9.

## Conference contributions

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| 09/2024 | <b>DGP Conference 2024, University of Bonn</b><br>Oral presentation: „Identification of physiological responses and genetic loci associated with vegetative and inflorescence resilience to boron and water limitation in <i>Brassica napus</i> L.”  |
| 09/2023 | <b>International Boron Conference, 100 Years Boron in Plant Nutrition, University of Hohenheim</b><br>Poster: „An appropriate choice of the boron fertilizer species under boron deficiency results in an advantageous performance of <i>Brassica napus</i> plants only on well-watered but not on water-limited conditions” |
| 09/2023 | <b>DGP Annual Conference 2023, University of Hohenheim</b><br>Poster: „Identification of physiological responses to combined boron and water limitation in <i>Brassica napus</i> ”   |
| 10/2022 | <b>DGP Annual Conference 2022, Technical University of München</b><br>Poster: „ <i>Brassica napus</i> cultivated under Boron deficiency and drought stress – a vicious circle”   |

## Awards

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| 10/2022 | 2. Award, Poster, <b>DGP Annual Conference 2022, TU Munich</b> |
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