

# ELISA WERNER

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## Degrees

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April 2017 – Sept. 2021	<b>M.Sc. Biochemistry</b> (Technical University Munich) Minor Subjects: <b>Microbiology</b> and <b>Synthetic Biotechnology</b> Final Mark: 1.2 (equivalent to <b>A+</b> )  Thesis: Development of a Promoter-Toolbox for the Metabolic Engineering of <i>Cutaneotrichosporon oleaginosus</i> ATCC 20509 (final mark: 1.0, equivalent to <b>A+</b> )
Sept. 2014 – March 2017	<b>B.Sc. Biochemistry</b> (Technical University Munich) Final mark: 1.7 (equivalent to B+)  Thesis: Studies on the DNA-Binding of the Transcription Factor JAM2 of <i>Arabidopsis thaliana</i>
July 2014	A-levels (1.1 equivalent of <b>A+</b> ) Viscardi-Gymnasium, Fürstenfeldbruck

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## Language Skills

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German (native language)

English (C1, TOEFEL iBT MyBest™ Scores (2021): 117 out of 120)

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## Current Employment

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April 2017 – Sept. 2021                      **M.Sc. Biochemistry** (Technical University Munich)

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## Previous Work Experience

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Nov. 2019 - Feb. 2020	Internship at the Chair for <b>Biochemistry</b> at the Technical University Munich My work included: <ul style="list-style-type: none"><li>• Extraction and NMR analysis of lichen components</li></ul>
May - Aug. 2019	Internship in the working group “Microbiology and <b>Marine Biotechnology</b> ” at Hokkaido University, <b>Japan</b> (travel and living expenses funded by the “Max-Weber Program Bayern”) My work included: <ul style="list-style-type: none"><li>• Optimization of enzyme purification from scallop</li><li>• Characterization of celluluronate-degrading enzyme from scallop</li></ul>

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## Previous Work Experience

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- Sept. 2018 Internship at the Chair for **Microbiology** at the Technical University Munich  
My work included:
- Cultivation and transformation of *M.luteus*
  - Enzymatic assays
- May - June 2018 Internship at the Werner Siemens Chair for **Synthetic Biology** (WSSB) at the Technical University Munich  
My work included:
- Chromatography
  - Fluorescence spectroscopy
  - Enzymatic assays
  - IR, NMR and Raman-spectroscopy
- Sept. - Nov. 2017 Voluntary Internship at the Alfred Wegener Institut, **Helmholtz Centre** for Polar and Marine Research, department of **Biogeosciences** in Bremerhaven, Germany  
My work included:
- Cultivation of phytoplankton cultures under different environmental conditions
  - Fast Repetition Rate Fluorometry (FRRF)
  - Preparation of probes for mass spectrometry
  - Fluorescence spectroscopy
- March 2016 Internship at the Chair for **Biotechnology** at the Technical University Munich  
My work included:
- Production of recombinant proteins in *E.coli* and protein purification
  - Investigation of protein stability (CD spectra, fluorescence spectroscopy)

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## Research Output

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[Torasso Kasem, E. J., Angelov, A., Werner, E., Lichev, A., Vanderhaeghen, S., & Liebl, W. \(2021\). Identification of New Chromosomal Loci Involved in com Genes Expression and Natural Transformation in the Actinobacterial Model Organism \*Micrococcus luteus\*. \*Genes\*, 12\(9\), 1307.](#)

Inoue, A., Kudo, M., Werner, E., & Ojima, T. (2021). Identification and characterization of cellouronate ( $\beta$ -1, 4-linked polyglucuronic acid) lyase from the scallop *Mizuhopecten yessoensis*. *Carbohydrate Polymers*, 254, 117306.

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## Scholarships

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- 2020-2021 Holder of the **e-fellows** scholarship for top talents (career network and online scholarship program)  
I profited from Networking and Seminars

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## Scholarships

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- 2014 – 2021      Holder of the “**Max-Weber Program Bayern**” (MWP) scholarship (supports talented students at Bavarian tertiary education institutions)
- I profited e.g. from networking, seminars, lectures, language courses and excursions. Moreover, I have also organized activities for other scholarship recipients

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## Voluntary work

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- 2017-2021      Member of the **Environmental Department** of the **Students Representation** of the Technical University Munich (AStA)
- My commitment included:
- Organization and moderation of a Lecture Series on Environmental Issues
  - Public relations and poster design
- 2020-2021      Founding Member of a **CarSharing** Initiative in Türkenfeld, Germany
- My commitment included:
- Public relations
  - Website design
- Jan. - Feb. 2018      Voluntary work in the project “**Marine Conservation and Diving**” with the non-governmental organization FRONTIER, Island of Mafia, Tanzania
- My work included:
- Recording of corals, fish, invertebrates, sea grass and mangroves
  - Holding English classes for the local staff
  - Participation in awareness-raising community activities
- 2016 - 2019      Voluntary work in a **refugee relief program**
- My commitment included:
- Supervision of homework
  - Recreational activities with children

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## Skills

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<b>IT</b>	MS Office	Advanced Level in Word, Excel, Power Point
	Scientific Data Analysis	Medium Level in SnapGene and Origin, basic Level in MestReNova
<b>Personal</b>	Softskills	Training in Teamwork, stress management and workshop moderation
	Project Management	Organization of an Environmental Lecture Series (AStA) Organization of Excursions (MWP)
	Interculturality	Studies, voluntary work as well as living abroad
	Diving	PADI Advanced Open Water Diver
	Art	Advanced Drawing Skills, experience in painting and watercolour



Türkenfeld, 13.09.2021

Elisa Werner, M.Sc. (TUM)