
Curriculum Vitae (updated 02/2023)

Personal Data

Name **Dr. Elisabeth Bauer**

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Google Scholar <https://scholar.google.de/citations?user=QUM0fvMAAAAJ&hl=en>

Research Interests

- Simulations and simulation-based learning
- Representational scaffolding in simulations
- Computer-based feedback
- Adaptivity and AI in learning processes
- Natural Language Processing (NLP) in education
- Analysis and facilitation of diagnostic skills
- Scientific reasoning and argumentation

Short Bio

Elisabeth Bauer studied Educational Sciences in her Bachelor's degree and Psychology in the Learning Sciences in her Master's degree at LMU Munich. From 2017 to 2023, she worked as a research associate at the Chair of Education & Educational Psychology at LMU Munich. During this time, she worked on the BMBF project FAMULUS on facilitating diagnostic thinking and reasoning in medical and teacher education using simulations and AI-based automated adaptive feedback (2017-2020). From 2019 to 2021, her research was funded by the international doctoral program REASON of the Elite Network of Bavaria. From 2022 to 2023, she was a postdoctoral researcher at the Chair of Education & Educational Psychology at LMU Munich. Since 2023, she has been a staff member at the Friedl Schöller Endowed Chair of Educational Psychology at the TUM School of Social Sciences and Technology, where she is involved in the COSIMA research group of the German Research Foundation (DFG).

Academic Qualification

10/2019 – 12/2021 **LMU Munich (Germany), PhD student in the third cohort of the international doctoral program REASON**
Subjects: Learning Sciences (major)
Degree: Ph.D. (1.0)

12/2018 – 09/2019 **LMU Munich (Germany), Associated PhD student in the second cohort of the international doctoral program REASON**
Subjects: Learning Sciences (major)

10/2017 – 9/2019 **LMU Munich (Germany), PhD student of the Doctoral Training Program in the Learning Sciences**
Subjects: Psychology (major) and educational sciences (minor)

10/2015 – 09/2017 **LMU Munich (Germany), Master of Science student**
Subjects: Psychology in the Learning Sciences
Degree: M.Sc. (1.4)

10/2011 – 09/2014 **LMU Munich (Germany), Bachelor of Arts student**
Subjects: Educational sciences (major) and psychology (minor)
Degree: B.A. (2.0)

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Work Experience

- Since 02/2023 **Technical University Munich (Germany), Educational Psychology, work unit of Prof. Dr. Tina Seidel**
Research associate and Postdoc researcher
- 01/2022 –
02/2023 **LMU Munich (Germany), Education and Educational Psychology, work unit of Prof. Dr. Frank Fischer**
Research associate and Postdoc researcher
- 10/2017 –
12/2021 **LMU Munich (Germany), Education and Educational Psychology, work unit of Prof. Dr. Frank Fischer**
Research associate and PhD student
- 2013 –
2017 **Several internships and working student appointments (at LMU University Hospital, Deutsche Bahn, Petschwork Consulting)**
Working student and intern

International Research Stays

- Sept – Oct 2019 **University of Wisconsin-Madison**
Epistemic Analytics Lab of Prof. Dr. David Williamson Shaffer

Third Party Funding

- Since 02/2023 **DFG-Forschungsgruppe COSIMA: Förderung von Diagnosekompetenzen in simulationsbasierten Lernumgebungen in der Hochschule** (in cooperation with TU Munich), funded by German Research Foundation (DFG). (Phase 1: ~254 000 EUR; Phase 2: ~270 000 EUR)
Status: Postdoc Researcher
- 10/2019 –
12/2021 **REASON - Scientific Reasoning and Argumentation, international doctoral program**, funded by Elite Network of Bavaria (ENB, an initiative of the Bavarian Ministry of Science and the Arts). (Phase 1: ~251.000 EUR; Phase 2: ~251.000 EUR)
Status: PhD student
- 12/2018 –
09/2019 **REASON - Scientific Reasoning and Argumentation, international doctoral program**, funded by Elite Network of Bavaria (ENB, an initiative of the Bavarian Ministry of Science and the Arts). (Phase 1: ~251.000 EUR; Phase 2: ~251.000 EUR)
Status: Associated PhD student
- 10/2017 –
12/2021 **DFG-Forschungsgruppe COSIMA: Förderung von Diagnosekompetenzen in simulationsbasierten Lernumgebungen in der Hochschule** (in cooperation with TU Munich), funded by German Research Foundation (DFG). (Phase 1: ~254 000 EUR; Phase 2: ~270 000 EUR)
Status: Associated PhD student
- 10/2017 –
06/2020 **FAMULUS - Förderung von Diagnosekompetenzen durch adaptive Online-Fallsimulationen in Medizin- und Lehramtsstudium** (in cooperation with Institute of Health Education, LMU Munich and Ubiquitous Knowledge Processing Lab, TU Darmstadt), funded by the Federal Ministry of Education and Research (BMBF). (~306 000 EUR)
Status: Project staff and PhD student

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Reviewer Activities

Journals Teaching and Teacher Education
Journal of Educational Research (Zeitschrift für
Erziehungswissenschaft)

Commitment to Self-Administration

10/2019 – Student representative of the REASON international doctoral program
12/2021 LMU Munich (Germany)

Teaching Experience

- Courses
(German-
speaking)*
- Übung zu Empirische Forschungsmethoden I-1 (B.A. Educational sciences): winter term 2018/2019, winter term 2019/2020, winter term 2020/2021, winter term 2021/2022, winter term 2022/2023
 - Übung zu Empirische Forschungsmethoden I-2 (B.A. Educational sciences): summer term 2019, summer term 2020, summer term 2021, summer term 2022
 - Seminar zu einem Spezialthema im Anwendungsgebiet Entwicklung, Lernen und Instruktion „Entwicklung und Förderung diagnostischen Denkens“ (B.Sc. Psychology): winter term 2022/2023
 - Seminar zu die Lehren- und Lernen II „Einführung in die Mediendidaktik und didaktisches Design mit Learning Management Systemen“ (B.A. Educational sciences): summer term 2018
 - Diagnosekompetenztraining im Rahmen der Staatsexamensvorbereitung Pädagogische Psychologie des Lehrens und Lernens (Teacher education; partly co-teaching): winter term 2017/2018
- Courses
(English-
speaking)*
- Learning, Instruction, Training and Instruction I (M.Sc. Psychology: Learning Sciences; co-teaching): summer term 2018, summer term 2019
 - Learning, Instruction, Training and Instruction II (M.Sc. Psychology: Learning Sciences): winter term 2019/2020
 - REASON Retreat (REASON doctoral program; co-teaching): winter term 2019/2020, winter term 2020/2021
 - Scientific Reasoning & Argumentation II (REASON doctoral program; co-teaching): summer term 2020
- Theses
supervised*
- 2 B.A. theses (B.A. Educational sciences)