

## 10 PhD positions at the Munich Center of the Learning Sciences Ludwig-Maximilians-Universität München

The [Munich Center of the Learning Sciences](#) (MCLS) invites applications for 10 PhD positions (equaling 2/3 of a full academic position, amounting to approximately 29.000 – 34.000 €/year, **initial duration of 24 months with the possibility of extending for one year**) within the [International Doctoral School “Scientific Reasoning and Argumentation”](#) (REASON) funded by the [Elite Network of Bavaria](#) (ENB) to commence in **October 2019**.

### Program Description

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The International Doctoral School “Scientific Reasoning and Argumentation” is an interdisciplinary PhD program in the Learning Sciences, incorporating research from Educational Psychology, Developmental Psychology, Biology Education, Mathematics Education, Medical Education, Education Sciences, Computer Science and Social Work.

Doctoral candidates have the opportunity to carry out scientific research in an international, interdisciplinary and supportive environment that brings together expert researchers from the **Ludwig-Maximilians-University of Munich (LMU)**, the **Technical University of Munich (TUM)** and the **Katholische Stiftungshochschule München, University of Applied Sciences (KSH)**.

REASON aims to advance scientific knowledge on the development and promotion of reasoning and argumentation skills from preschool age to adulthood.

The **program research areas** include, but are not limited to, the following:

- (1) *The interplay between domain-specific and domain-general skills in reasoning and argumentation*
- (2) *The role of epistemic emotions in reasoning and argumentation*
- (3) *The role of social context and social interaction in reasoning and argumentation*
- (4) *Fostering reasoning and argumentation skills*
- (5) *The development of reasoning and argumentation*
- (6) *Reasoning and argumentation in evidence-based practice*
- (7) *The role of technology in reasoning and argumentation*
- (8) *Measuring reasoning and argumentation (including competence-oriented and large scale assessment)*

## Main Supervisory Body

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### KSH

Prof. Dr. Birgit Dorner	Professor for Arts Education
Prof. Dr. Sabine Pankofer	Psychology in Social Work

### LMU

Prof. Dr. Frank Fischer	Chair of Education and Educational Psychology
Prof. Dr. Martin Fischer	Institute for Medical Education
Prof. Dr. Moritz Heene	Psychology in the Learning Sciences
Prof. Dr. Heinrich Hußmann	Work Group Media Informatics and Human-Machine-Interaction
Prof. Dr. Birgit J. Neuhaus	Institute for the Didactics of Biology
Prof. Dr. Reinhard Pekrun	Chair for Personality & Educational Psychology
Prof. Dr. Beate Sodian	Chair of Developmental and Educational Psychology
Prof. Dr. Stefan Ufer	Chair for Mathematics Education

### TUM

Prof. Dr. Reiss Kristina	Heinz Nixdorf Chair for Mathematics Education
Prof. Dr. Tina Seidel	Friedl Schöller Endowed Chair of Educational Psychology

International experts will act as additional supervisors and potential hosts for research stays abroad. The program offers a structured curriculum including courses on research methodology for the Learning Sciences in general and for studying reasoning and argumentation in particular. Further provided are training opportunities for soft skills development and a mentoring system for international candidates.

## General Requirements

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Prospective candidates must be qualified to enter doctoral level studies according to LMU regulations and must have obtained an excellent Bachelor's or Master's degree (or equivalent) in a field related to the Learning Sciences. Candidates with degrees from academic teacher education programs are also eligible. All applicants are expected to display a strong interest in research related to the Learning Sciences and the area of scientific reasoning and argumentation. Additionally, they must demonstrate very good knowledge of scientific methodology and research skills, as well as English language proficiency.

## Application Documents

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1. Curriculum Vitae
2. Letter of motivation consisting of:
  - description of prior experience and knowledge related to scientific reasoning and argumentation and empirical research in the Learning Sciences,
  - clear ranking of three research areas (from the list presented above) in terms of relevance to the future PhD project.
3. A max. 500-word proposal of the envisioned research project related to the research area prioritized as first option in the motivation letter. The proposal should also include explanations for suggested data analysis methods.
4. Notarized copies of the master's diploma and the transcript of records.
5. MCLS Recommendation Letter issued by an MCLS (REASON) member
6. One reference letter (e.g. issued by a previous professor)
7. Proof of English proficiency in the form of an acknowledged language test certificate. The certificate must confirm a result equivalent to the B2 level established by the [Common European Framework of Reference for Languages: Learning, Teaching, Assessment](#).

Complete applications must be submitted via the online application tool, which will be available on the [program official webpage](#). Based on the application review process, promising candidates will be invited to a job interview during which they are asked to present their prior research as well as the plans for their PhD project.

## Application Timeframe

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<b>Application Deadline</b>	<b>April 1, 2019 (23:59 UTC+1hour) –without MCLS recommendation letter</b> <b>April 15, 2019 (23:59 UTC+1hour) with MCLS recommendation letter</b>
<b>Interviews</b>	<b>May 2019</b>
<b>Program Start</b>	<b>October 1, 2019</b>

For any questions related to the program and the application process, please contact the coordination office at [reason-enb@psy.lmu.de](mailto:reason-enb@psy.lmu.de).

**We are looking forward to receiving your application!**