

Magdalena Kersting

Curriculum Vitae

Department of Teacher Education
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Research Experience

- since 3/2020 **Postdoctoral Researcher in Science Education**, *Department of Teacher Education and School Research, University of Oslo, Norway.*
Research project: An Embodied Approach to Developing a Framework for Video Analysis
- 11/2019 **Visiting Research Fellow**, *Department of Engineering and Physics, Karlstad University, Sweden.*
Research project: Embodied cognition in science education
- 5/19-6/2019 **Visiting Research Fellow**, *ARC Centre of Excellence for Gravitational Wave Discovery, Swinburne University of Technology, Australia.*
Research project: Virtual reality in astronomy education and public outreach
- 8/18-4/2019 **Visiting Research Fellow**, *School of Physics, University of Western Australia, Australia.*
Research project: Designing an astrophysics exhibition at the Gravity Discovery Centre

Education

- 2015-2019 **PhD in Physics Education**, *University of Oslo, Norway.*
Thesis: General Relativity in Secondary School - Research-Based Development of Learning Resources and Analyses of Students' Conceptual Understanding Using the Model of Educational Reconstruction
- 2015-2018 **Diploma Public Relations Management**, *Freie Journalistenschule, Berlin, Germany.*
Thesis: Communication at the crossroads of science and education
- 2013-2015 **Master of Science in Mathematics**, *University of Göttingen, Germany.*
Thesis: Exotic Crossed Products: Constructions and Open Questions
- 2009-2012 **Bachelor of Science in Mathematics**, *University of Göttingen, Germany.*
Thesis: Konvexitätsätze in symplektischer Geometrie
- 2008-2011 **Bachelor of Science in Physics**, *University of Göttingen, Germany.*
Thesis: Reconstruction of Correlation Networks

Selection of Honors, Scholarships & Awards

- 2019 **Hartle Award for Best Oral Talk by a Student, GR22/Amaldi13**, Valencia, Spain.
- 2019 **Best Oral Presentation of a Young Researcher in Physics Education, GIREP 2019**, Budapest, Hungary.
- 2019 **Science Studies Colloquium Series Qualification Scholarship**, *Einstein's Impact on Society*, University of Oslo.
- 2019 **EARLI Mentoring Grant**, *Embodied Cognition in Science Education*, University of Karlstad.
- 2018 **Norwegian Research Council personal overseas research grant**, *Combining digital and physical learning environments in a science exhibition*, University of Western Australia & Gravity Discovery Centre.
- 2018 **ESERA Travel Award**, *Students' Construction of the Time Concept in General Relativity*, University of Western Australia.
- 2017 **Winner of the Science on Stage National Competition in Norway**, A Relatively Modern Physics Lesson, Tekna Fagforening & Science on Stage. (joint application with Henning Vinjusven Myrenhagen)
- 2016 **Norwegian Research Council workshop grant**, International Workshop on the Teaching and Learning of Einsteinian Physics in the Era of Gravitational Astronomy, Gravity Discovery Centre, Western Australia. (joint application with the Research Section for Physics Education)
- 2014 **DAAD Promos Mobility Stipend**, University of Oslo.
- 2011 **Bachelor of Science with Distinction**, *University of Göttingen*.

Professional Membership

- 2020-present **ASERA**, Australasian Science Education Research Association.
- 2019-present **ISGRG**, International Society of General Relativity & Gravitation.
- 2018-present **ISLS**, International Society of the Learning Sciences.
- 2017-present **PESGB**, Philosophy of Education Society of Great Britain.
- 2016-present **EARLI**, European Association for Research on Learning and Instruction.
- 2015-present **ESERA**, European Science Education Research Association.

Professional Activities

- 2020-present **Co-Leader of iGrav Working Group**, *Co-Leader of the Formal Education and Evaluation Working Group of the International Gravitational Wave Outreach Group iGrav*.
- 2019-present **Reviewer**, *Pedagogies: An International Journal*.
- 2019-present **Reviewer**, *Physical Review Physics Education Research*.

- 2018-present **Reviewer**, *Science and Education*.
- 2016-2017 **Events Officer for UiODoc**, *UiODoc is the interest organization for PhD students and postdocs at the University of Oslo*.
- 2016 **Member of International Scientific Committee**, *Conference: International Workshop on the Teaching and Learning of Einsteinian Physics*, Gravity Discovery Centre, Gin Gin, Australia.
- 2013–2016 **Editor in Chief of Student Physics Magazine Detektor**, *German Physical Society*, Hamburg, Germany.

Teaching Experience

- 2020-2021 **Graduate Courses**, *Course Reader*, Oslo, Norway.
- (Spring 2021) NATDID4001 - Natural Sciences, Research, and Schools
 - (Autum 2020) PPU3210 - Instruction and Learning Progression: Science Education
- 2016-2018 **Undergraduate and Graduate Courses**, *Teaching Assistant*, Oslo, Norway.
- (Spring 2018) FYS4160 - General Relativity
 - (Spring 2017) FYS4160 - General Relativity
 - (Autumn 2016) FYS1120 - Electromagnetism
- 2014-2015 **Revision Courses**, *Course Reader*, Göttingen, Germany.
- (4/2015) Multimedia Revision Course in Calculus
 - (3/2014) Revision Course in Calculus
- 2010–2014 **Undergraduate Courses**, *Teaching Assistant*, Göttingen, Germany.
- (Winter 2013/14) Calculus
 - (Summer 2012) Complex Analysis
 - (Winter 2011/12) Calculus
 - (Summer 2011) Electrodynamics
 - (Winter 2010/11) Calculus
- 2009-2013 **Freshmen Courses**, *Course Reader*, Göttingen, Germany.
- (9/2013) Mathematics for Agricultural Science and Forestry Students
 - (10/2010) Physics for Agricultural Science and Forestry Students
 - (9/2010) Mathematics for Physics and Mathematics Students
 - (10/2009) Physics for Agricultural Science Students

Professional Development Workshops

- 2017-present **Teacher Professional Development Workshops**, *Workshop Leader*.
- (08/2019) ESERA, Bologna, Italy (joint workshop with Jackie Bondell, Swinburne University of Technology, Melbourne)
 - (12/2018) STAWA Future Science, Perth, Australia
 - (11/2018) University of Western Australia, Perth, Australia
 - (6/2018) Sandefjord Highschool, Sandefjord, Norway
 - (11/2017) University of Bergen, Bergen, Norway
 - (10/2017) Bro Aschehoug Publishing House, Oslo, Norway

———— Languages

German Native Speaker
Norwegian Fluent

English Fluent
French Basic Working Knowledge