

# Magdalena Kersting

## Curriculum Vitae

Department of Teacher Education  
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University of Oslo  
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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

- 2021 **Shortlisted for the Institute of Physics - Early Career Physics Communicator Award 2020.**
- 2021 **APS Young Leader in Physics**, *Invited participant of the American Physical Society's (APS) International Young Leaders Forum.*
- 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

- ESERA**, European Science Education Research Association.
- ASERA**, Australasian Science Education Research Association.
- IOP**, Institute of Physics.
- ISGRG**, International Society of General Relativity & Gravitation.

## Professional Activities

- 2021 **Conference Session Chair**, *1st Electronic Conference on Universe ECU2021*, Session: Teaching Relativity and Modern Physics in General.

- 2020-2021 **Postdoc Mentoring Trainee**, *Trainee in two professional development programmes*, 1) University of Oslo: Mentoring Programme for Female Postdocs  
2) PostdocTraining: Postdoc Career Success program.
- 2020-present **Working Group Co-Leader IGrav**, *Co-Leader of the Education and Evaluation Working Group of the International Gravitational Wave Outreach Group IGrav*.
- 2018-present **Reviewer**, *Science and Education, Physical Review Physics Education Research, Pedagogies: An International Journal*.
- 2016-2017 **Events Officer for UiODoc**, *UiODoc is the interest organization for PhD students and postdocs at the University of Oslo*.
- 2016 **Member of Conference Committee**, *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*.

- (4/2021) Bro AOF & Fagforum for realfag Agder, Norway
- (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