

Miina Leiviskä

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Born: June 22, 1996 — Mäntsälä, Finland

Nationality: Finnish

Gender: Female

Education

- 2020-2023 **PhD Physics**, University of Grenoble Alpes, SPINTEC laboratory, France
- 2018-2020 **MSc Nanoscience**, University of Groningen, the Netherlands
Graduated with GPA **9.0** (max 10) with a distinction Summa Cum Laude
- 2015-2018 **BSc Chemistry**, University of Groningen
Track: Smart Materials + Minor: Physics
Graduated with GPA **8.5** (max 10)
- 2012-2015 **International Baccalaureate**, Joensuu lyseon lukio (high school), Finland
Graduated with **38** (max 45) points and top of the class.

Awards and Recognitions

- 2018-2020 **Student in highly selective Top Master programme in Nanoscience at the University of Groningen.**
Scholarship granted by Zernike Institute for Advanced Materials.
- 2022 **Outstanding Article, Impact Award for Original Research**
Awarded by Frontiers in Nanotechnology to *Anisotropy and Current Control of Magnetization in SrRuO₃/SrTiO₃ Heterostructures for Spin-Memristors*

Publications

- 2023 *Anisotropy of the anomalous Hall effect in the unconventional compensated d-wave magnet candidate Mn₅Si₃ films*
M. Leiviskä, RL Seeger, I. Kounta, H. Reichlova, A. Badura, J. Rial, S. Beckert, D. Kriegner, I. Joumard, E. Schmoranzero, J. Sinova, T. Jungwirth, STB Goennenwein, L. Michez, L. Smejkal, H. Gomonay, and V. Baltz, arXiv preprint
- 2023 *Dynamic imprinting of nanoscale topological phases into an antiferromagnet*
M. Leiviskä, S. Jenkins, RFL Evans, D. Gusakova, and V. Baltz, arXiv preprint arXiv:2302.08842
- 2023 *Competitive actions of MnSi in the epitaxial growth of Mn₅Si₃ thin films on Si(III)*
I. Kounta, H. Reichlova, D. Kriegner, RL Seeger, A. Bad'ura, M. Leiviskä, A. Boussadi, V. Herešanu, S. Bertaina, M. Petit, E. Schmoranzero, L. Smejkal, J. Sinova, T. Jungwirth, V. Baltz, STB Goennenwein, and L. Michez, Phys. Rev. Materials 7, 024416
- 2021 *Macroscopic time reversal symmetry breaking by staggered spin-momentum interaction*
H. Reichlová, RL Seeger, R. González-Hernández, I. Kounta, R. Schlitz, D. Kriegner, P. Ritzinger, M. Lammel, M. Leiviskä, V. Petříček, P. Doležal, E. Schmoranzero, A. Bad'ura, A. Thomas, V. Baltz, L. Michez, J. Sinova, STB Goennenwein, T. Jungwirth, L. Šmejkal, arXiv preprint arXiv:2012.15651
- 2021 *Penetration depth of Cooper pairs in the IrMn antiferromagnet*
RL Seeger, G Forestier, O Gladii, M Leiviskä, S Auffret, I Joumard, C Gomez, M Rubio-Roy,

- AI Buzdin, M Houzet, and V. Baltz, Phys. Rev. B 104, 054413
 2021 *Anisotropy and Current Control of Magnetization in SrRuO₃/SrTiO₃ Heterostructures for Spin-Memristors*
- A. Goossens, **M. Leiviskä**, and T. Banerjee, Front. Nanotechnol. 3:680468
 2020 *Electrical Conductivity of Doped Organic Semiconductors Limited by Carrier–Carrier Interactions*
- M. Koopmans, **M. Leiviskä**, J. Liu, J. Dong, L. Qiu, JC Hummelen, G. Portale, M.C. Heiber, and LJA Koster, ACS Appl. Mater. Interfaces 2020, 12, 50, 56222–56230

Conference Presentations

- 2023 Intermag, Sendai, Japan
Invited talk: *Skyrmion nucleation in thin films of an antiferromagnet for the next generation spintronic devices*
Contributed talk: *Anisotropic spontaneous Hall effect in altermagnetic Mn₅Si₃*
- 2023 DPG Spring Meeting, Dresden, Germany
Contributed talk: *Anisotropic spontaneous Hall effect in altermagnetic Mn₅Si₃*
- 2022 Spin Argentina, San Carlos de Bariloche, Argentina
 Contributed talk: *Anisotropic spontaneous Hall effect in altermagnetic Mn₅Si₃*
- 2022 JEMS, Warsaw, Poland
Contributed talk: *Spin transport as a probe of non-linear fluctuations at the spin glass transition in Pd_{1-x}Ni_x alloys*
Contributed talk: *Anisotropic spontaneous Hall effect in altermagnetic Mn₅Si₃*
- 2022 Colloque Louis Néel, Strasbourg, France
Contributed talk: *Spin transport as a probe of non-linear fluctuations at the spin glass transition in Pd_{1-x}Ni_x alloys*

Teaching Experience

- 2019 spring **Teaching assistant** for a course Structure of Matter II to 2nd year BSc Physics, University of Groningen
- 2018 spring Private **chemistry tutor** to a International Baccalaureate student.
- 2017-2018 **Student mentor** for a group of first year students of BSc Chemistry and BSc Chemical engineering, University of Groningen