

Curriculum vitae

Mart Laanpere

Date of birth 5/28/1964
Phone 6409355
Phone 5278437
E-mail martl@tlu.ee
ORCID 0000-0002-9853-9965



Fields of research

CERCS RESEARCH FIELD:

S281 Computer-assisted education
P175 Informatics, systems theory
S270 Pedagogy and didactics

KEYWORDS:

technology-enhanced learning; digital innovation in education; Semantic Web applications and ontologies for knowledge management; didactics of informatics; didactics of mathematics; learning analytics & recommender systems

Career

2021–now Tallinn University, professor of mathematics and computing education
2015–now Tallinn University, School of Digital Technologies, senior researcher
2014–2015 Tallinn University, Institute of Informatics, senior researcher
2003–2013 Tallinn University, Institute of Informatics, researcher, head of CET
1998–2022 Tallinn Ped.Univ., lecturer, head of the Centre for Educ. Technology
1996–1998 Educational technologist in Tallinn Pedagogical University
1992–1996 Headmaster of Kolga Secondary School
1989–1992 Teacher of mathematics in Kolga Secondary School

Academic degrees

Mart Laanpere, Doctor's Degree, 2013, (sup) Brian Hudson, Pedagogy-driven design of virtual learning environments, Tallinn University, Institute of Educational Sciences

Mart Laanpere, Research Master's Degree, 1997, (sup) , Designing a prototype of the Web-based Course Design Support Center for the Tallinn Pedagogical University, University of Twente

Education

1998–2013 Doctoral studies in Tallinn Pedagogical University, educational sciences
1996–1997 MSc programme 'Educational and Training Systems Design' in University of Twente
1982–1989 Teacher's diploma (mathematics & physics) from Tallinn Pedagogical Institute

Honours & awards

2024 Tallinn University Badge of merit

2020 National research award 2020 in social sciences, Estonian Academy of Sciences

2019 Tallinn University 100 alumni of the century

2017 Order of White Star 5th Class, President of the Republic of Estonia

2014 National awards in educational sciences: the best PhD thesis 2013 (H.Liimets Award)

2013 TLU Open University: Trainer of the Year 2013

2010 The most entrepreneurial researcher in Tallinn University in 2009

2007 The most entrepreneurial researcher in Tallinn University in 2007

2005 The best implementer of the research results in the Tallinn University

2004 The best Website for R&D project in TPU 2004

Administrative work

2026–... Editor in Chief of a research journal Informatics in Education (Scopus Q2)

2022–... Member of the editorial board of Informatics in Education journal

2020–... Estonian Society of Mathematics, School Mathematics group, member

2018–... Member of ACM SIGCSE

2018–... Member of the editorial board of Seminar.net journal

2010–... Professional member of ACM

2010–... Founding member of ESTCHI - a national chapter of ACM

2022 EDEN Digital Learning Europe, Management Board Member 2028

2027 Chair of the Nordic mathematics education conference NORMA 2027 2027

2026 Chair of school informatics research conference ISSEP 2026 2026

2023 Co-chair of the track on Ai in Education at ACM Symposium of Applied Computing 2026

2021– ICEM: International Council of Educational Media, member of Executive Committee 2024

2017– Member of board, International Council of Educational Media (ICEM) 2024

2016– Member of the Council of the School of Digital Technologies, TLU 2024

2022 EDEN Digital Learning Europe, chair of the annual conference 2022

2021– mLearn 2021: Intl. conference on mobile and blended learning, chair 2021

2016– Member of the Council of the Centre for Excellence in Educational Innovation, TLU 2021

2020– ISSEP 2020: Intl. research conference on informatics in Schools, chair 2020

2012– Estonian Lifelong learning strategy 2014-2020, member of the steering committee 2020

2018– Co-chair of ICEM'18 conference

2017-2018 Moldova Competitiveness project Future Classroom Labs, consultant

2016 Intl. research conference on Technology-Enhanced Assessment (TEA 2016), co-chair 2016

2016 12th Joint European Summer School on Technology Enhanced Learning, local organiser

2015 Program co-chair of the International Conference of Web-based Learning ICWL 2015 2015

2009 International Conference of Web-based Learning, member of the Program Committee 2015

- 2014 Co-chair of the International Conference of Web-based Learning ICWL 2014 2014
- 2013 Serbian IPA project Razvionica, senior ICT expert 2014
- 2010-2013 European Educational Research Association EERA, convenor of OpenNet network

Recent selected publications

Economou, Anastasia; Stupurienė, Gabrielė; Laanpere, Mart; Bocconi, Stefania; Lucas, Margarida (2026). SELFIEforTEACHERS: Validation of a tool supporting teachers' self-reflection on their digital competence. *European Journal of Education* [forthcoming].

Maia Lust, Mart Laanpere (2025). The Challenges in Adoption of the New Computing Curriculum in Estonian Lower-Secondary Schools. *Proceedings of 27th International Conference on Interactive Collaborative Learning*. Ed. Auer, M.E., Rüttemann, T. Lecture Notes in Networks and Systems: Springer, Cham, 280–288. DOI: 10.1007/978-3-03185649-5_28.

Volt, Annika; Laanpere, Mart; Tammets, Kairit (2025). Flexible instructional trajectories in school mathematics. *SMDF (the Swedish Association for Research in Mathematics Education) series: NORMA 24, The Tenth Nordic Conference on Mathematics Education, Denmark from the 4th to the 7th of June 2024 at Aarhus University, Campus Emdrup in Copenhagen*. SMDF, 401–408.

Chejara, Pankaj; Tammets, Kairit; Laanpere, Mart ; Volt, Annika ; Tammets, Priit ; Savitski, Pjotr (2025). Supporting Student-Centered Learning with Flexible Learning Trajectories and Open Learner Models. *Companion Proceedings of the 15th International Learning Analytics and Knowledge Conference (LAK'25): Dublin, Ireland, March 3-7, 2025*. Society for Learning Analytics Research, 108–110.

Chejara, Pankaj ; Tammets, Kairit ; Laanpere, Mart ; Volt, Annika ; Kasepalu, Reet ; Sarmiento Marquez, Edna Milena ; Sillat, Linda Helene (2025). Teacher-AI complementarity: From design to implementation and reflection. *Hybrid Intelligence Workshop at 15th International Conference on Learning Analytics & Knowledge (LAK25); Dublin, Ireland; March 3-7, 2025*. Society for Learning Analytics Research.

Osula, Kairi; Laanpere, Mart (2025). Integrating the Elements of Data Science in Estonian High School Curricula. In: Auer, M.E., Rüttemann, T. (Ed.). *Lecture Notes in Networks and Systems*. (289–300). Springer Science and Business Media Deutschland GmbH. DOI: 10.1007/978-3-031-85649-5_29.

Raavel, Martti; Laanpere, Mart; Põldoja, Hans (2025). Integrating Version Control Systems into Computer Science Curricula: Challenges and Experiences. *Proceedings of the 30th ACM Conference on Innovation and Technology in Computer Science Education V. 2: 30th annual ACM conference on Innovation and Technology in Computer Science Education (ITiCSE), 30 June-2 July, Netherlands*. Association for Computing Machinery, 775–775. DOI: 10.1145/3724389.3730773.

Kusmin, Marge; Laanpere, Mart (2025). Development and Validation of a Reference Architecture for the Smart Schoolhouse. *Baltic Journal of Modern Computing*, 13 (2), 331–356. DOI: 10.22364/bjmc.2025.13.2.02.

Volt, Annika; Laanpere, Mart; Tammets, Kairit (2025). Flexible instructional trajectories for learners' self-regulation in 9th Grade Algebra. *Proceedings of the Fourteenth Congress of the European Society for Research in Mathematics Education (CERME14)*. ERME, Free University of Bozen-Bolzano, 3784–3791.

Maia Lust, Mart Laanpere (2024). Digital Prototyping projects in the new computing curriculum for estonian basic schools. *EDULEARN24 Proceedings: 6th International Conference on Education and New Learning Technologies, Palma, Spain, 1-3 July, 2024*. IATED Digital Library, 8867–8874. DOI: 10.21125/edulearn.2024.2138.

Volt, Annika; Laanpere, Mart; Kurvits, Jüri (2024). Supporting flexible learning paths with interactive learning resources in mathematics: lessons learned. *Educational Media International*, 61 (1-2), 198–213. DOI: 10.1080/09523987.2024.2358656.

Parve, Kristin; Laanpere, Mart; Hallika, Liisa (2024). VALIDATING A COMPUTATIONAL THINKING ASSESSMENT TOOL IN THE CONTEXT OF STEAM EDUCATION. *EDULEARN24 Proceedings: EDULEARN24, Palma, 2024*. IATED digital library, 9861–9870. (EDULEARN24 Proceedings; 1). DOI: 10.21125/edulearn.2024.2373.

Leoste, Janika; Laanpere, Mart; Rakic, Slavko; Marjanovic, Ugljesa; Tomusk, Voldemar (2024). Quadruple Helix in EdTech: A First-Year Study in Widening Countries. *EDEN 2024 Research Workshop Proceedings: EDEN 2024 Research Workshop & PhD Schools' Masterclass*. Ubiquity Press. (Ubiquity Proceedings) [forthcoming].

Recent selected R&D projects

- Estonian Research Grant "Hybrid Regulation of Learning using Open Learner Models: Towards Supporting Students in Meaningful Learning" (2024–2028); PI: Daniel Hooshyar; Tallinn University, School of Digital Technologies,
- Estonian Research Grant "LAHEMATE: towards learner-centered teaching methods on problem-solving in school mathematics" (03.02.2025–30.09.2027); PI: Mart Laanpere
- Enterprise Estonia grant "EduFlexit – development of flexible learning paths and smart learning analytics platform" (01.09.2025–31.08.2026); Principal Investigator: Kairit Tammets; Tallinn University, School of Digital Technologies;
- Tallinn University grant "TLU AI Teaching and Learning Lab" (2026–2028); Principal Investigator: Timo Tobias Ley; Tallinn University,
- Horizon Europe project "EdTech Talents" (2023–2027); Principal Investigator: Janika Leoste; Tallinn University.
- NordPlus project "Co-designing Computational Thinking and Mathematics Curriculum Framework for Nordic-Baltic Preservice Teacher Education/2025" (2025–2026); PI in TLU: Mart Laanpere
- Erasmus+ KA2 project "STEM Digital Distance Learning in University Teaching" (2021–2023); Principal Investigator: Priit Reiska; Tallinn University,
- EstDev cooperation project "B-level digital skills training program for teachers in Moldova" (2025–2025); Principal Investigator: Mart Laanpere; Tallinn University,
- NordPlus project "Scaffolding Computational Thinking - Enhancing Nordic Teacher Education" (2019–2020); Principal Investigator in TLU: Mart Laanpere.
- EstDev cooperation project "DG-turn: Enhancing Quality of Education through Digital Innovation in Georgian Schools" (15.08.2018–31.07.2022); PI: Mart Laanpere
- Erasmus+ KA2 project "Future Teachers Education: Computational Thinking and STEAM" (2019–2022); Principal Investigator: Mart Laanpere
- Erasmus+ KA3 project "SHERPA: SELFIE helper and Pedagogical Assistant" (2020–2022); Principal Investigator in TLU: Mart Laanpere

- JRC funded project "Pilot study of the SELFIE self-reflection tool based on the European Framework for the Digital Competence of Educators" (2020–2021); PI: Mart Laanpere
- Erasmus+ project "Development of STEAM education"; PI in TLU: Mart Laanpere
- Erasmus+ project "ENhanced Learning and teaching in International Virtual ENvironments" (2021–2023); Principal Investigator: Janika Leoste; Tallinn University,
- Erasmus+ project "Leading universities - catalysts for change" (2021–2023); Principal Investigator: Mart Laanpere
- NordPlus project "Interactive videos for the greener future" (2021–2022); Principal Investigator: Mart Laanpere

Supervised 8 PhD theses and 120+ Masters' theses

FULL ACADEMIC CV IN ESTONIAN RESEARCH DATABASE:

https://www.etis.ee/CV/Mart_Laanpere/eng/

Training language, English, level C2

Mart Laanpere