

Dissemination Corinna Hörmann (formerly Kröhn)

ORCID: <https://orcid.org/0000-0002-4770-6217>

ResearchGate: <https://www.researchgate.net/profile/Corinna-Hoermann>

Publications

Journal Papers

- [1] Hörmann, C., Kuka, L., Fraser, A., Sabitzer, B.: *Artificial and Human Intelligence: Collaborative Dynamics in Academic Publishing*. Springer Communications in Computer and Information Science. In press, 2025.
- [2] Grossauer, B., Hörmann, C., Schmidthaler, E., Sabitzer, B.: *Lobus Frontalis und ChatGPT – Chatbots als Lernassistentz für Studierende des gehobenen medizinisch-technischen Dienstes*. Zeitschrift für Hochschulentwicklung (ZFHE). December, 2024, <https://www.zfhe.at/index.php/zfhe/article/view/2057>.
- [3] Hörmann, C., Kuka, L., Schmidthaler, E., Sabitzer, B.: *Digital Education Training for Teachers – Learnings from Austria*. Frontiers in Education Journal. December, 2024, <https://www.frontiersin.org/journals/education/articles/10.3389/educ.2024.1490123/full>.
- [4] Kuka, L., Hörmann, C., Sabitzer, B.: *Digitaler Dialog, Menschliche Gestaltung - Eine virtuelle Kunstgalerie als Schule der Vernunft: Wie aufgeklärte Medienpädagogik mit AI Literacy verknüpft werden kann*. Medienimpulse, 62(1), 2024, <https://doi.org/10.21243/mi-01-24-22>.
- [5] Schmidthaler, E., Schmollmüller, M., Wimmer-Furian, P., Hörmann, C., Rottenhofer, M., Sabitzer, B.: *Exploring Gender Stereotypes and Sexism in Learning Apps: Insights from Austrian Secondary School Students*. American Journal of Applied Psychology, 12(5): 111-128, September, 2023, <https://doi.org/10.11648/j.ajap.20231205.11>.
- [6] Schmidthaler, E., Schalk, M., Schmollmüller, M., Hinterplattner, S., Hörmann, C., Rottenhofer, M., Andrije, B., Lavicza, Z., Sabitzer, B.: *The Interdisciplinary Implementation of Poly-Universe to Promote Computational Thinking: Teaching Examples from Biological, Physical, and Digital Education in Austrian Secondary Schools*. Frontiers in Psychology, Vol. 14, 2023, <https://www.frontiersin.org/articles/10.3389/fpsyg.2023.1139884/full>.

- [7] Hörmann, C., Hinterplattner, S., Sabitzer, B.: *SARS-COVID-19 – Eine Chance für die Bildungslandschaft? Untersuchung zur Umsetzung der “Digitalen Grundbildung” während des Lockdowns.* Medienimpulse, 2021, <https://journals.univie.ac.at/index.php/mp/article/view/6298>.
- [8] Hinterplattner, S., Skogø, J., Kröhn, C., Sabitzer, B.: *The Children’s Congress: A Benefit To All Levels Of Schooling By Strengthening Computational Thinking.* International Journal of Learning and Teaching, Vol. 6, Nr. 1, 2020, <http://www.ijlt.org/index.php?m=content&c=index&a=show&catid=149&id=798>.

Proceedings

- [1] Hörmann, C., Unterweger, M., Katzinger, L., Kuka, L. Sabitzer, B.: *Starke Mädchen, starke Zukunft: Sicher im digitalen Raum.* GI-Fachtagung Informatik und Schule (INFOS), Stoos, Switzerland. In review process.
- [2] Hörmann, C., Unterweger, M., Kuka, L. Sabitzer, B.: *Wie digitale Grundbildung den Informatikunterricht prägt: Erfahrungen aus Österreich.* GI-Fachtagung Informatik und Schule (INFOS), Stoos, Switzerland. In review process.
- [3] Unterweger, M., Hörmann, C., Kuka, L. Sabitzer, B.: *Empowering Young Women against Cybercrime: Building Digital Resilience in the Age of AI Manipulation.* International Conference on Education and New Learning Technologies, Palma, Spain. In review process.
- [4] Unterweger, M., Hörmann, C., Kuka, L. Sabitzer, B.: *From Chalkboard to Chatbot: How AI is Changing Language Education.* International Conference on Education and New Learning Technologies, Palma, Spain. In review process.
- [5] Hörmann, C., Unterweger, M., Kuka, L. Sabitzer, B.: *AIM for Education: Bridging the Gap Between AI Advancements and Classroom Innovation.* International Conference on Education and New Learning Technologies, Palma, Spain. In review process.
- [6] Hörmann, C., Unterweger, M., Kuka, L. Sabitzer, B.: *Computational Thinking in Primary Education: Creative Approaches with Ozobots and the COOL IT Method.* International Conference on Education and New Learning Technologies, Palma, Spain. In review process.
- [7] Hinterplattner, Schwinghammer, M., S., Skogø, J., Hörmann, C.: *The Integration of Digital Education within an Ozobot Pilot Project: Austrian Teacher Perspectives and*

Practices. International Conference on Computer Supported Education, Porto, Portugal. 1-3 April, 2025.

- [8] Hörmann, C., Schmidthaler, E., Unterweger, M., Kuka, L., Sabitzer, B.: *Teacher Education at a Crossroads: Computer Science and Digital Education in a Blended Curriculum*. International Conference on Computer Supported Education, Porto, Portugal. 1-3 April, 2025.
- [9] Unterweger, M., Hörmann, C., Kuka, L., Sabitzer, B.: *The Importance of Digital and Computer Science Education in Primary Schools: Perspectives from Educators*. International Conference on Computer Supported Education, Porto, Portugal. 1-3 April, 2025.
- [10] Kuka, L., Hörmann, C., Sabitzer, B.: *A Young Researcher's Dual Lens: A Twofold Autoethnographic Exploration of Generative AI in the Realms of Doing Research and Teaching Computer Science and Media Design Education*. International Conference on Computer Supported Education, Porto, Portugal. 1-3 April, 2025.
- [11] Hinterplattner, S., Schmidthaler, E., Schwinghammer, M., Skogoe, J., Hörmann, C.: *The Integration of Digital Education within an Ozobot Pilot Project: Austrian Teacher Perspectives and Practices*. International Conference on Computer Supported Education, Porto, Portugal. 1-3 April, 2025.
- [12] Hörmann, C., Kuka, L., Sabitzer, B.: *Pioneering Computer Science Education in Austria: A Practical Report on Curriculum Development*. International Technology, Education and Development Conference, Valencia, Spain. 3-5 March, 2025.
- [13] Fraser, A., Hörmann, C., Birnkammerer, H., Kuka, L., Sabitzer, B.: *Hands-On Teacher Support through OER-Kitchen: Building a Collaborative Community*. 17th annual International Conference of Education, Research and Innovation, Seville, Spain. 11-13 November, 2024.
- [14] Fraser, A., Hörmann, C., Kuka, L., Sabitzer, B.: *German Teacher Support Platforms: The impact of OER, AI and Collaborative Communities*. 17th annual International Conference of Education, Research and Innovation, Seville, Spain. 11-13 November, 2024.
- [15] Pasterk, S., Hörmann, C., Bollin, A.: *DigiTeaMap: A Digital Map to Represent Addressed Competencies in Digital and Computer Science Education in Austria*. International Conference on Informatics in Schools (ISSEP), Budapest, October, 2024.

- [16] Hörmann, C., Kuka, L., Sabitzer, B.: *Understanding Teachers' Motivations for Digital Education Training: A Qualitative Study*. International Conference on Informatics in Schools (ISSEP), Budapest, October, 2024.
- [17] Hörmann, C., Kuka, L., Fraser, A., Sabitzer, B.: *Innovation or Imitation? A Critical Analysis of AI-Authored vs. Human-Authored Scientific Papers*. International Conference on Computer Supported Education (CSEDU), Angers, 2024.
- [18] Hörmann, C., Schmidthaler, E., Sabitzer, B.: *Navigating the Implementation of the Curriculum Digital Education in Austrian Secondary Schools: Challenges and Teacher Perspectives*. International Conference on Informatics in Schools (ISSEP), Lausanne, October, 2023, https://link.springer.com/chapter/10.1007/978-3-031-44900-0_13.
- [19] Schmidthaler, E., Hörmann, C., Fraser, A., Sabitzer, B.: *Easy Coding in Biology: Combining Block-Based Programming Tasks with Biological Education to Encourage Computational Thinking in Girls*. International Conference on Informatics in Schools (ISSEP), Lausanne, October, 2023, <https://zenodo.org/records/8431893>.
- [20] Rottenhofer, M., Hörmann, C., Schmidthaler, E., Sabitzer, B., Groher, I.: *Let IT Dance! Experience Computer Science with Dance and Music*. Austrian Citizen Science Conference, Linz, 2023.
- [21] Hörmann, C., Schmidthaler, E., Sabitzer, B.: *Introducing Digital Education as a Mandatory Subject – The Struggle of the Implementation of a new Curriculum in Austria*. 15th International Conference on Computer Supported Education (CSEDU), Prague, Czech Republic, April, 2023, <https://tinyurl.com/3fyem45k>.
- [22] Schmidthaler, E., Hörmann, C., Rottenhofer, M., Andic, B., Sabitzer, B., Lavica, Z.: *Employment of Mobile Augmented Reality in Biological Education: A Comparison of Perceptions Regarding Austrian Secondary School Teachers and Students*. International Conference on Society for Information Technology and Teacher Education, New Orleans, USA, March 13-17, 2023, <https://tinyurl.com/yw4xykt3>.
- [23] Schmidthaler, E., Hörmann, C., Schalk, M., Sabitzer, B., Lavicza, Z.: *The Importance of a Quality Assessment for Educational Applications: Perceptions of Secondary School Students Regarding Non-Certified Learning Apps*. 14th International Conference on Education Technology and Computers (ICETC), Barcelona, Spain, 2023, <https://dl.acm.org/doi/10.1145/3572549.3572592>.

- [24] Hörmann, C., Schmidthaler, E., Kuka, L., Rottenhofer, M., Sabitzer, B.: *From Non-Existent to Mandatory in Five Years – The Journey of Digital Education in Austrian Schools*. International Conference on Informatics in Schools (ISSEP), Vienna, 2022, <https://tinyurl.com/44z92upt>.
- [25] Hörmann, C.: *Integrated Digital Education – Computational Thinking for Everyone*. Doctoral Consortium International Conference on Informatics in Schools (ISSEP), 2022.
- [26] Sabitzer, B., Groher, I., Hörmann, C., Hofer, A.: *Toward the Implementation of Escape Room Games in an Educational Context*. 15th European Conference on Games Based Learning (ECGBL), Brighton, UK, 2021.
- [27] Hörmann, C., Rottenhofer, M., Groher, I., Sabitzer, B.: *Let the Games Begin – Inviting Young Learners to Code*. 26th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), Paderborn, Germany, 2021, <https://dl.acm.org/doi/abs/10.1145/3456565.3460074>.
- [28] Hörmann, C., Kuka, L., Sabitzer, B.: *Digital Literacy in Austrian Lower Secondary Education – A Synthesis and Evaluation of Experiences in the First Two Years*. International STEM Education Conference (iSTEMed), online, 2021, <https://ieeexplore.ieee.org/document/9625126>.
- [29] Hörmann, C., Sabitzer, B.: *Digital Literacy in Lower Secondary Education – A First Evaluation of the Situation in Austria*. International Conference on Informatics in Schools (ISSEP), online, 2020, <https://ceur-ws.org/Vol-2755/paper12.pdf>.
- [30] Otto, K., Kröhn, C., Sabitzer, B.: *Immersion into the World of Gaming – an Approach of Introducing Gamification in an Educational Context*. International Conference on Computer Supported Education (CSEDU), 2020.
- [31] Kröhn, C., Sabitzer, B.: *Peer-Learning And Talents Exchange In Programming – Experiences And Challenges*. International Conference on Computer Supported Education (CSEDU), 2020, <https://tinyurl.com/y45bs2ph>.
- [32] Kröhn, C., Hinterplattner, S., Sabitzer, B.: *Towards an Implementation of a Peer-Learning and Peer-Teaching Group in Programming*. Conference on Innovation and Technology in Computer Science Education (ITiCSE), 2020, <https://dl.acm.org/doi/10.1145/3341525.3393971>.

- [33] Kröhn, C., Skogø, J., Hinterplattner, S., Sabitzer, B.: *Towards Implementing Computational Thinking in Mathematics Education in Austria*. Conference on Mathematics Education in the Digital Age (MEDA), 2020, <https://tinyurl.com/yusp2wb3>.
- [34] Kröhn, C., Groher, I., Sabitzer, B., Kuka, L.: *Female Computer Scientists Needed – Approaches for Closing The Gender Gap*. Frontiers in Education (FiE), IEEE, 2020, <https://ieeexplore.ieee.org/document/9273933>.
- [35] Kröhn, C., Sabitzer B.: *Integrated Digital Education – Computational Thinking for Everyone*. International Conference on Informatics in Schools (ISSEP), Larnaca, Cyprus, 2019, <https://tinyurl.com/mr29wm6k>.
- [36] Hofstätter, B., Sabitzer, B., Thaler, A., Kröhn, C.: *Kids4Wearables: Sustainability and Creativity in STEM Education*. 12th Annual International Conference of Education, Research and Innovation (ICERI), Seville, Spain, 2019, <https://library.iated.org/view/HOFSTATTER2019KID>.
- [37] Reisinger, M., Kröhn, C., Sabitzer, B.: *Magic Arts as Problem-Based Learning Concept – A STEAM Approach to Introduce Computational Thinking in Lower Secondary Schools*. International Technology, Education and Development Conference (INTED), 2018, <https://library.iated.org/view/REISINGER2019MAG>.

Books and Chapters

- [1] Sabitzer, B., Hörmann, C., Kuka, L.: *Entdecken Sie Java 2! Aufgabensammlung mit neurodidaktischer Basis*. Amazon, 2023, <https://amzn.eu/d/4gkRXv5>.
- [2] Kuka, L., Hörmann, C., Sabitzer, B.: *Teaching and Learning with AI in Higher Education: A Systematic Review*. Section 5: Machine Learning and Human Learning, Book Project: Learning with Technologies and Technologies in Learning, 2022, https://link.springer.com/chapter/10.1007/978-3-031-04286-7_26.
- [3] Sabitzer, B., Spieß-Knafl, S., Pasterk, S., Kröhn, C.: *Entdecken Sie Java! Programmieren lernen und üben mit Musterlösungen*. Amazon, 2019, <https://amzn.eu/d/gZZic8m>.

Other

- [1] Hörmann, C.: *Ist die AHS noch konkurrenzfähig? Informatikunterricht in Österreich*. OCG Journal. Ausgabe 04, 2024, <https://www.yumpu.com/de/document/read/69160861/ocg-journal-zukunftscode>.

- [2] Hörmann, C.: *Das hastige Aus der vorwissenschaftlichen Arbeit – ein Fehler?*. Der Standard, July 2024, <https://www.derstandard.at/story/3000000227160/das-hastige-aus-der-vorwissenschaftlichen-arbeit-ein-fehler>.
- [3] Hörmann, C.: *KI-gesteuerte Toolification: Ein neues Zeitalter für die (vor)wissenschaftliche Arbeit*. FNMA Magazin, Forum neue Medien in der Lehre Austria, Ausgabe 01, 2024, <https://fnma.at/content/download/2906/17996>.
- [4] Hörmann, C.: *Quo vadis Digitale Grundbildung? Vom Weg der Umsetzung eines neuen Curriculums in Österreich*. OCG Journal. Ausgabe 03, 2023, <https://www.ocg.at/publikationen>.
- [5] Rottenhofer, M., Hörmann, C., Sabitzer, B.: *Lasst die Spiele beginnen! Mit dem Projekt COOL Informatics spielerisch Computational Thinking Skills fördern*. OCG Journal. Ausgabe 01-02, 2021, <https://tinyurl.com/46up2fmj>.

Projects

[1] *Sicher im Digitalen: Starke Mädchen, Starke Zukunft*

Role: Project lead and grant acquisition

Duration: 2024 - present

Funding: Federal Chancellery Austria

Grant amount: 200.000 €

Project Partner: Steyr District and Provincial Court

Description:

- successfully acquired funding from Federal Chancellery Austria, focusing on raising awareness of cybercrime risks among girls and fostering digital resilience through AI-powered tools
- led the project team, coordinating activities across research, content development, and implementation to align with project objectives
- developed targeted educational materials and workshops to empower young women with digital literacy skills
- oversaw stakeholder engagement, ensuring community involvement and sustainable outcomes

[2] *DigiFit4All: Digital and Computer Science Skills through Personalized Courses (POOCs)*

Role: Coordinator of Linz workgroup, content developer, and contributor to publications

Duration: 2020 - 2024

Funding: Federal Ministry of Education, Science and Research Austria

Grant amount: 200.000 €

Project Partners: University of Klagenfurt, University of Krems, Technical University Vienna

Description:

- coordinated the workgroup based at Linz
- key role in content development
- contributed to the dissemination of project outcomes through academic publications
- fostered collaboration within the workgroup and across interdisciplinary teams to ensure project objectives were met effectively and efficiently

[3] *Digital Teaching Map: A map of the state of digital education in Austria*

Role: Coordinator of Linz workgroup, content development, and publications

Duration: 2023

Funding: Verein Forum Neue Medien Austria (fnma)

Project Partner: University of Klagenfurt

Description:

- development of content aimed at enhancing media literacy and digital education in school settings
- disseminating project outcomes through publications and conference presentations

[4] *Let IT Dance: Computer Science with Music and Dance*

Role: Grant acquisition and contributor

Duration: 2022 - 2023

Funding: Federal Chancellery Austria

Grant amount: 160.000 €

Description:

- secured funding from Federal Chancellery Austria to integrate creative arts into computer science education, emphasizing computational thinking through music and dance
- contributed to the design and delivery of interdisciplinary workshops combining artistic and technical elements to enhance student engagement

[5] *Girls* Only: STEM Support Measures for Young Women**

Role: Contributor

Duration: 2021 - 2022

Funding: Federal Chancellery Austria

Grant amount: 134.000 €

Project Partner: Montanuniversität Leoben

Description:

- assisted in the development and execution of targeted workshops aimed at increasing girls' participation in STEM, with a specific focus on computer science and computational thinking
- supported outreach activities to engage underrepresented groups in STEM fields
- collaborated with team members to ensure the content was inclusive, engaging, and aligned with project goals

[6] *COOL Informatics: Cross-Curricular Materials for Digital Literacy and Programming*

Role: Grant acquisition, contributor, and CS topics lead

Duration: 2019 - 2020

Funding: Innovationsstiftung für Bildung

Grant amount: 50.000 €

Project Partners: Impulse Center for Cooperative Open Learning, Austrian Computer Society (OCG)

Description:

- acquisition of grant funding to support this cross-curricular initiative, which integrated digital literacy and programming into school curricula
- took responsibility for all computer science-oriented topics, developing innovative educational materials and resources for programming and digital education
- collaborated with educators to align project outputs with curricular requirements and ensure practical applicability

[7] *Modeling at School: Computer Science modeling as a creative teaching & learning strategy across all school levels and subjects*

Role: Contributor

Duration: 2018 - 2021

Funding: Erasmus+

Grant amount: 440.000 €

Project Partners: Rey Juan Carlos University Madrid (Spain), University of Jyväskylä (Finland)

Description:

- contributed to this interdisciplinary initiative to promote computational thinking and modeling as a teaching strategy across various school subjects
- assisted in the design and implementation of training materials and resources for educators
- supported evaluation efforts by analyzing teacher and student feedback to optimize project outcomes

Committees and Working Groups

- [1] *Deputy head working group IT education and didactics in ÖGFD*. Austrian Society for Subject Didactics, 2024 - present.
- [2] *Deputy head working group IT education and didactics in CS of OCG Austria*. Austrian Computer Society, 2024 - present, <https://www.ocg.at/en>.
- [3] *Program committee STE(A)M Workshop*. Co-located with XVII International Conference on Mathematics, Science and Technology Education (ICon-MaSTEd 2025), 2025.
- [4] *Program committee ISSEP conference*. International Conference on Informatics in Schools, 2024 - present.
- [5] *Organisation committee didactics day as part of the IMST conference*. IMST stands for “Innovations Make Schools Top” and is an Austria-wide support system for the innovative further development and improvement of STEM teaching in Austrian schools, 2024 - present, <https://www.imst.ac.at/>.
- [6] *OSOS Austria*. Promotion of digital school based on free open source software, 2024 - present, <https://linux-bildung.at/osos-austria/>.
- [7] *Workgroup curriculum “Informatik und Digitale Grundbildung”*. Development of the curriculum for the study “Informatik und digitale Grundbildung” at Johannes Kepler University Linz and Paris Lodron University Salzburg, 2022 - present.
- [8] *Workgroup curriculum “Informatik” AHS*. Development of a draft curriculum for secondary school (AHS) for the BMBWF, 2022 - present.
- [9] *CreaMoS*. Association for the promotion of digital education and health, 2022 - present, <https://www.creamos.eu/>.
- [10] *RECC OÖ group of “Informatik & Digitale Medien”*. Developing digital literacy among students, teachers, pre-service teachers, and teacher trainers, 2019 - present, <https://neu.recc-ooe.at/>.

Promotion of Women

- [1] *Informatica Feminale Bremen*. International summer study programme for women in Computer Science, Workshop in L^AT_EX, 2024.
- [2] *Ditact - Women's IT Studies*. Computer science and IT-centered courses by women for women in Austria, 2022 - present, <https://ditact.ac.at/>.
- [3] *Tagebuch der Informatikerin*. Mentoring for female students, 2020 - 2021.
- [4] *FIT - Frauen in die Technik*. Information about all technical and scientific studies at JKU for female students, 2008 - 2011, <https://tinyurl.com/2umbu4bs>.

Promotion of Young Talent

- [1] *Science Holidays*. Extracurricular educational program for children and teenagers in summer at university, 2022 - present, <https://www.jku.at/en/schools/science-holidays-program/>.
- [2] *Mini MINTs*. STEM workshops for kindergarten children at the local parent-child center, 2022 - present.
- [3] *Kinderuni OÖ*. Extracurricular educational program for children and teenagers in summer, 2019 - present, <https://www.kinderuni-ooe.at/>.
- [4] *Lange Nacht der Forschung*. Diverse program with offerings from a wide range of scientific disciplines for the public, 2019 - present, <https://langenachtderforschung.at/>.
- [5] *Kinderkongress*. Event to strengthen Computational Thinking and to increase interest in STEAM subjects, 2018 - 2020.

Reviews

Journals

- [1] Teacher and Teacher Education, 1/2025.
- [2] ACM Transactions on Computing Education, 12/2024.
- [3] Guest Editor MDPI Education Sciences, Digital Literacy for Teaching Excellence: Empowering Educators in the Digital Age, 09/2024-02/2025.
- [4] Computers & Education, 10/2024.
- [5] Zeitschrift für Hochschulentwicklung, 10/2024.
- [6] Zeitschrift für Hochschulentwicklung, 09/2024.
- [7] MDPI, Special Issue: ICT in Education, 2nd Edition, Computing and Artificial Intelligence, 09/2024.
- [8] MDPI, Special Issue: ICT in Education, 2nd Edition, 08/2024.
- [9] ACM Transactions on Computing Education, 07/2024.
- [10] Computers in Human Behavior Reports, 07/2024.
- [11] Transactions on Computing Education (TOCE), 07/2024.
- [12] Design+, AccScience Publishing, 06/2024
- [13] Sammelband “Digitalisierung in der Bildung – Ein Kinderspiel?”, Beltz Verlag, 06/2024.
- [14] Applied Sciences MDPI, 06/2024.
- [15] Open Education Studies, 06/2024.
- [16] Informatics MDPI, 5/2024.
- [17] Advanced Intelligent Systems, 3/2024.
- [18] Qeios, 02/2024, <https://www.qeios.com/read/Q3MZY9>.

Proceedings

- [1] STE(A)M Workshop co-located with XVII International Conference on Mathematics, Science and Technology Education (ICon-MaSTEd 2025), 2/2025.
- [2] IEEE Global Engineering Education Conference (EDUCON), 12/2024.
- [3] Programme Committee International Conference on Informatics in Schools, 10/2024.
- [4] International Conference on Informatics in Schools, 06/2024.
- [5] Frontiers in Education Conference, 06/2024.
- [6] IEEE Frontiers in Education Conference (FIE), 03/2024.
- [7] Austrian Citizen Science Conference, 11/2023, <https://www.citizen-science.at/konferenz/oecsk-2023>.
- [8] ÖZBF Tagungsband, 2022, <https://osf.io/vp629/>.

Other

- [1] Arqus Call for Collaborative Research Projects, University of Graz, 07/2024.

Co-Supervised PhD Students

- [1] *Teacher Support through OER-Kitchen: Building a Collaborative Community*. Anneliese Fraser, PhD.
- [2] Michaela Schwinghammer, PhD.
- [3] *GenAI in Education (Working Title)*. Lisa Kuka, PhD Thesis.
- [4] *EdTech in Science – The Implementation of Educational Applications in Science Education*. Eva Schmidthaler, PhD.
- [5] *Role of Chatbots in the Training of Senior Medical Technicians (Working Title)*. Bettina Grossauer, PhD.

Supervised & Co-Supervised Theses

- [1] *Does Chess Have a Positive Effect on Math Skills* (“Wirkt sich Schach positiv auf die Mathematikkompetenzen aus?”). Hannah Ladendorfer, Master Thesis.
- [2] *Integrating Computer Science Education Through Clil - A Practical Exploration With Emphasis On Fake News And Media Literacy*. David Baumann, Bachelor Thesis.
- [3] *Development and Implementation of Differentiated Tasks for Databases and SQL in a School Context* (“Entwicklung und Implementierung differenzierter Aufgabenstellungen für Datenbanken und SQL im schulischen Kontext”). Maximilian Berger, Bachelor Thesis.
- [4] *BeeBots as an Online Application* (“BeeBots als Online Applikation”). Daniela Milisic, Bachelor Thesis.
- [5] *Possible Applications of Artificial Intelligence for Teachers: Opportunities, Risks and Integration in the Classroom* (“Einsatzmöglichkeiten Künstlicher Intelligenz für Lehrerinnen und Lehrer: Chancen, Risiken und Integration in den Unterricht”). Alexander Kellermann, Bachelor Thesis.
- [6] *The Female Side of Computer Science* (“Die weibliche Seite der Informatik”). Barbara Pühringer, Bachelor Thesis.
- [7] *Modeling of Mental Arithmetic Strategies Using UML* (“Modellierung von Kopfrechen-Strategien mittels UML”). Nicole Biermair, Bachelor Thesis.

- [8] *Artificial Intelligence in the Classroom* (“Künstliche Intelligenz im Unterricht”). Krisztina Gabriella Urbán, Bachelor Thesis.
- [9] *Combining Computer Science and Sports – Theory and Implementation at School* (“Kombination von Informatik und Sport – Theorie und Umsetzung in der Schule”). Philipp Mühlehner, Diploma Thesis.
- [10] *The Impact of Digital Devices on Motivation and Self-Efficacy* (“Die Auswirkung digitaler Endgeräte auf die Motivation und Selbstwirksamkeit”). Bernhard Großschartner, Master Thesis.
- [11] *Promoting Talents in STEM: The Mini Talents Club* (“Begabtenförderung im MINT-Bereich: der Mini Talente Club”). Michaela Schwinghammer, Diploma Thesis.
- [12] *Network Technology in the Classroom: Selected Topics for Teaching at Secondary Schools* (“Netzwerktechnik im Unterricht: Ausarbeitung ausgewählter Themen für den Unterricht an höheren Schulen”). Miksch Harald, Diploma Thesis.
- [13] *Number Systems – A Combination of Computer Science and Mathematics in the Classroom* (“Zahlensysteme – eine Kombination aus Informatik und Mathematik im Unterricht”). Sebastian Schwarz, Diploma Thesis.

Talks

- [1] *Revolutionieren Sie Ihre Präsentation mit KI*. Oead Hochschultagung, St. Pölten, Austria. 14/11/2024.
- [2] *KI im Schreibprozess: Von der Idee zur fertigen VWA*. eEducation Fachtagung, Vienna, Austria. 8/11/2024.
- [3] *Understanding Teachers' Motivations for Digital Education Training: A Qualitative Study*. International Conference on Informatics in Schools (ISSEP), Lausanne, Switzerland. 28/10/2024.
- [4] *Digitale Bildung im Wandel: Entwicklungen und Ausblicke*. Invited talk at closing event of the teacher training “Digitale Grundbildung”, University College of Teacher Education Salzburg, Austria. 28/9/2024.
- [5] *Jenseits der Sekundarstufe I – Schnittstellenproblematik Digitale Grundbildung und Informatik*. IMST Tagung, Private University College of Teacher Education Linz, Austria. 20/9/2024.
- [6] *KI in der Hochschule: Revolution oder Risiko für akademische Integrität?*. 12. Tag der Lehre FH OÖ, University of Applied Sciences Upper Austria, Austria. 16/4/2024.
- [7] *Quo vadis Digitale Grundbildung?*. EDUdays, University for Continuing Education Krems, Austria. 4/4/2024.
- [8] *Von der Bibliothek zur KI: von der Evolution der VWA in der Bildung*. eEducation Praxistage, Linz, Austria. 19/3/2024.
- [9] *Quo vadis Digitale Grundbildung*. Linzer Informatiktag, University Linz, Austria. 6/3/2024.
- [10] *From G for Grooming to S for Sexting – Cyber Security in Everyday School Life: Teachers as Shields Against Online Threats?*. Invited Talk at Lecture Series Diversity, Gender & Intersectionality, University Passau, Germany. 22/11/2023.
- [11] *Navigating the Implementation of the Curriculum Digital Education in Austrian Secondary Schools: Challenges and Teacher Perspectives*. International Conference on Informatics in Schools (ISSEP), Lausanne, Switzerland. 23/10/2023.
- [12] *Quo vadis Digitale Grundbildung*. Ditact Summer School, Salzburg, Austria. 31/8/2023.
- [13] *Introducing Digital Education as a Mandatory Subject*. 15th International Conference on Computer Supported Education (CSEDU), Prague, Czech Republic. 22/4/2023.

- [14] *Let IT Dance! – Informatik mit Tanz und Musik.* eEducation Praxistage, Linz, Austria. 21/3/2023.
- [15] *From Non-Existent to Mandatory in Five Years – The Journey of Digital Education in the Austrian School System.* International Conference on Informatics in Schools, Vienna, Austria, 28/9/2022.
- [16] *Let the Games Begin – Inviting Young Learners to Code.* 26th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), 30/6/2021, online.
- [17] *Digital Literacy in Austrian Lower Secondary Education – Evaluation of Experiences in the First Two Years.* Methodological Innovations in STEAM Education Conference, 18/3/2021, Linz, Austria.
- [18] *Digital Literacy in Lower Secondary Education – A First Evaluation of the Situation in Austria.* International Conference on Informatics in Schools (ISSEP), 17/11/2020, online.
- [19] *Female Computer Scientists Needed – Approaches For Closing The Gender Gap.* Frontiers in Education conference (FiE), 24/10/2020, online.
- [20] *Peer Learning mit Hilfe des COOL Konzeptes – eine Möglichkeit zur Senkung der Drop-Out Quote im Studium der Informatik.* Tag der Lehre FH OÖ, 18/5/2020, online.
- [21] *Digital Literacy in Lower Secondary Schools – A First Evaluation of the Situation in Austria.* Linz STEAM Conference, 13/5/2020, Linz, Austria.
- [22] *Peer-Learning and Talents Exchange In Programming – Experiences And Challenges.* Conference on Computer Supported Learning (CSEDU), 4/5/2020, online.
- [23] *Computational Thinking for Everyone.* Innovations in STEAM Education and Design Research Conference, 9/5/2019, Linz, Austria.
- [24] *Digitale Grundbildung integrativ – Computational Thinking in allen Fächern.* Inday teachers, 22/5/2019, Innsbruck, Austria.
- [25] *Digitale Grundbildung integrativ: Computational Thinking in allen Fächern.* OeAD macht Schule: Was Lehrkräfte bei der (Weiter-)Entwicklung von digitalen Kompetenzen unterstützt, 30/4/2019, Vienna, Austria.
- [26] *COOL Lab: a Cross-Curricular Learning Lab.* Gamification and Creativity in STEAM Education conference, 17/1/2019, Linz, Austria.

Organized Events

- [1] *IMST Conference 2024*. Organisation committee. Linz, September 2024.
- [2] *Linzer Informatiktag 2024*. Organisation committee. Linz, March 2024.
- [3] *Digitalisierung in der Bildung – ein Kinderspiel?*. Colloquium Digitale: Digitalisierung, Mensch und Gesellschaft, ÖAW. January 2023.
- [4] *Kinderkongress 2020*. Brings teachers, university students, and pupils together to work interdisciplinary on real-life problems. April, 2020.
- [5] *Linzer Informatiktag 2020*. Organisation committee. Linz, February 2020.

Further Involvements

- [1] *GWUP – Gesellschaft zur wissenschaftlichen Untersuchung von Parawissenschaften*. International network with a critical approach to pseudo- and parascientific topics, 2024 - present, <https://www.gwup.org/>.
- [2] *Head JKU COOL Lab*. Teaching and learning lab to foster Computational Thinking, 2023 - present, <https://www.cool-lab.net/>.
- [3] *Didactical training for scientific staff*. Courses at Johannes Kepler University for the “Basic Teaching Certificate (Zertifikat Basis Lehre (ZBL))”, 2022 - present.
- [4] *Ars Electronica Festival*. Festival for art, technology & science, 2021, <https://ars.electronica.art/festival/>.
- [5] *Teacher Training*. Various teacher training workshops at PH OÖ concerning “Digital Education”, “Digital Teacher Tools”, “Moodle”, “Distance Learning”, etc., 2018 - present.
- [6] *JKU COOL Lab*. Teaching and learning lab to foster Computational Thinking, 2018 - present, <https://www.cool-lab.net/>.