



Yves Kreis

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Google Scholar: <https://scholar.google.com/citations?hl=en&user=AXiqQmAAAAAJ>

ResearchGate: <https://www.researchgate.net/profile/Yves-Kreis>

Academia: <https://uni-lu.academia.edu/YvesKreis>

Website: <https://www.uni.lu/fhse-en/people/yves-kreis/>

Work: Université du Luxembourg - Campus Belval 2, place de l'Université, 4365 Esch-sur-Alzette (Luxembourg)

EDUCATION AND TRAINING

Doctor of Education (Dr. paed.)

Pädagogische Hochschule Ludwigsburg [May 2000 – Oct 2005]

Address: Reuteallee 46, 71634 Ludwigsburg (Germany) | **Website:** <https://www.ph-ludwigsburg.de/> | **Field(s) of study:** Education: • Education science | **Final grade:** Cum Laude | **Level in EQF:** EQF level 8 | **Thesis:** Eignet sich die semi-konkrete Darstellungsform Pfeilsprache als nonverbale Kommunikationsmöglichkeit?

Professeur de sciences

Ministère de l'Éducation nationale et de la Formation professionnelle [1 Jan 2001 – Jun 2004]

Address: 29, rue Aldringen, 1118 Luxembourg (Luxembourg) | **Website:** <https://men.public.lu/en.html> | **Field(s) of study:** Education: • Teacher training with subject specialisation | **Thesis:** Mathé mat TIC : Intégration de l'outil informatique dans le cours de mathématiques de la classe de 4e

Diplôme de Formation Pédagogique

Centre Universitaire de Luxembourg [1 Jan 2001 – 5 Jul 2002]

Address: 162A, avenue de la Faïencerie, 1511 Luxembourg (Luxembourg) | **Website:** <http://www.cu.lu/> | **Field(s) of study:** Education: • Teacher training with subject specialisation | **Final grade:** Distinction | **Level in EQF:** EQF level 7 | **NQF Level:** Diplôme | **Thesis:** MATHE MAT TIC

Diplôme en Mathématiques

Université de Fribourg [Oct 1994 – 29 Dec 1998]

Address: Avenue de l'Europe 20, 1700 Fribourg (Switzerland) | **Website:** <https://www.unifr.ch/home/en/> | **Field(s) of study:** Natural sciences, mathematics and statistics: • Mathematics • Statistics | **Level in EQF:** EQF level 7 | **NQF Level:** Diplôme | **Thesis:** Iterative Methoden für Pseudospektralverfahren zur Lösung von Randwertproblemen

Professional Communication Skills for Researchers

Université de Fribourg [Oct 1998]

Address: Avenue de l'Europe 20, 1700 Fribourg (Switzerland) | **Website:** <https://www.unifr.ch/home/en/>

WORK EXPERIENCE

Deputy Head of the Institute for Teaching and Learning

University of Luxembourg [15 Jan 2025 – Current]

City: Esch-sur-Alzette | Country: Luxembourg | Website: <https://www.uni.lu/fhse-en/people/yves-kreis/> | Email address: yves.kreis@uni.lu | Name of unit or department: Department of Education and Social Work - Business or sector: Education

Assistant Professor

University of Luxembourg [8 Sep 2023 – Current]

Address: 2, place de l'Université, 4365 Esch-sur-Alzette (Luxembourg) | Website: <https://www.uni.lu/fhse-en/people/yves-kreis/> | Email address: yves.kreis@uni.lu | Name of unit or department: Department of Education and Social Work - Business or sector: Education

Lecturer for mathematics and STEAM education

Researcher on (primary) mathematics and STEAM education, educational technology in (primary) mathematics education as well as mathematics teacher training and teacher professionalisation

Invited Professor

Johannes Kepler University Linz [Sep 2018 – Current]

Address: Altenberger Straße 68, 4040 Linz (Austria) | Website: <https://www.jku.at/linz-school-of-education/forschung/mint-didaktik/> | Name of unit or department: Linz School of Education - Business or sector: Education

Lecturer

Researcher

Co-Supervisor of PhD students

Instructor

Institut de Formation de l'Éducation Nationale [2009 – Current]

Address: Route de Diekirch, 7220 Walferdange (Luxembourg) | Website: <https://ssl.education.lu/ifen/> | Business or sector: Education

In-Service Teacher Training

"Chargé d'éducation" - "Professeur-stagiaire" - ... - "Professeur de sciences"

Lycée Michel-Rodange Luxembourg - Lycée Technique Nic.-Biever - Lycée Technique de Bonnevoie [

15 Sep 1999 – Current]

City: Luxembourg - Dudelange - Luxembourg | Country: Luxembourg | Email address: yves.kreis@education.lu | Business or sector: Education

Mathematics and Computer Science Teacher in Secondary Schools

Senior Lecturer

University of Luxembourg [10 Oct 2003 – 7 Sep 2023]

Address: 2, avenue de l'Université, 4365 Esch-sur-Alzette (Luxembourg) | Website: <https://staff.uni.lu/yves.kreis> | Email address: yves.kreis@uni.lu | Name of unit or department: Department of Education and Social Work - Business or sector: Education

Lecturer for mathematics and STEAM education

Researcher on (primary) mathematics and STEAM education, educational technology in (primary) mathematics education as well as mathematics teacher training and teacher professionalisation

Parental Leave

[16 Sep 2013 – 15 Sep 2014]

Half-Time Leave with only Teaching (no Research)

Parental Leave

[15 Sep 2011 – 14 Sep 2012]

Half-Time Leave with only Teaching (no Research)

Instructor

Luxembourg Lifelong Learning Centre [Sep 2000 – Jul 2009]

Address: 2-4, rue Pierre Hentges, 1726 Luxembourg (Luxembourg) | Website: <https://www.lllc.lu/> | Business or sector: Education

Training in Office Applications

Teacher

Institut Supérieur d'Études et de Recherches Pédagogiques [15 Sep 2001 – 9 Oct 2003]

Address: Route de Diekirch, 7220 Walferdange (Luxembourg) | Website: <http://www.iserp.lu/> | Name of unit or department: Educational Measurement and Applied Cognitive Science - Business or sector: Education

Teacher for Mathematics Education

Undergraduate Assistant ("Unterassistent")

Universität Freiburg [1 Aug 1995 – 31 Jul 1998]

Address: Rue Faucigny 2, 1700 Fribourg (Switzerland) | Website: <https://www.unifr.ch/home/en/> | Name of unit or department: Institut für Informatik - Business or sector: Education

Managing an extensive Windows NT network

LANGUAGE SKILLS

Mother tongue(s): Luxembourgish

Other language(s):

German

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

English

LISTENING C1 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

[Dec 2023 – Current]

Joyful Schools – Joyful Schools: active learning strategies for health, wellbeing and growth mindset

We will develop and promote a well-being competence framework for teachers and a recommendation for policymakers. We will develop a MOOC to promote well-being at school and pilot it in a blended framework, including certification training in Finland for 28 teachers. Results will be shared through the website, social media, and four multiplier events, the "Joyful School Fairs".

I am the principal investigator at the University of Luxembourg and coordinate the project on behalf of the consortium.

Link: <https://joyfulschools.eu>

[Oct 2023 – Current]

3D STEAM – Accelerating STEAM-related Knowledge and Skills via 3D Modelling and 3D Printing

The project intends to assist future (pre-service) teachers to plan and carry out teaching activities with 3D modelling through a STEAM-based transdisciplinary approach. Thus, our principal aim is to design and develop university teacher training courses fostering 3D modelling skills of pre-service teachers with a variety of technologies as well as to reach a wider audience and students through such approaches.

I am the principal investigator at the University of Luxembourg for this project.

Link: <https://3dsteam.osu.cz>

[Nov 2021 – Oct 2024]

STEAM-Connect – Co-creating Transdisciplinary STEM-to-STEAM Pedagogical Innovations through Connecting International Learning Communities

STEAM-Connect aspires to utilise a range of open and innovative practices, as well as new technologies such as 3D printing, Augmented and Virtual Realities. In addition, we aim to utilise Arts-related pedagogies to foster learning in schools. Finally, through experiences in STEAM education development as well as immersing teachers in educational and design research, their teaching profile and professional prestige are being raised.

I am the principal investigator at the University of Luxembourg and coordinate the project on behalf of the consortium.

Link: <https://steamconnect.education>

[Sep 2018 – Aug 2021]

PIAF – Development of computational and algorithmic thinking in basic education

During the project a conceptual framework and a common reference framework of Competencies for Algorithmic Thinking (AT) and Computational Thinking (CT) is being developed in close cooperation with teachers. Furthermore, pedagogical scenarios and resources are being developed.

Link: <https://piaf.loria.fr>

[Oct 2007 – Sep 2010]

Intergeo – Interoperable Interactive Geometry for Europe

The main objective of Intergeo is to make digital content for mathematics teaching in Europe more accessible, usable and exploitable.

I am the principal investigator at the University of Luxembourg for this project.

Link: <http://i2geo.net>

[May 2007 – Apr 2010]

GeoGebraPrim

Adjustment of GeoGebra to the primary school, research on its effectiveness in learning.

I am the principal investigator for this project.

[2004 – 2007]

Zahlwissen

Investigation of the knowledge of numbers of pre-school children.

I am the principal investigator for this project.

[2024]

[Artful Pathways to Interreligious Understanding: Student Responses on STE\(Arts\)M Integration Through Maker Education in Interreligious Learning](#)

Hosic, R., Abrori, F. M., Lavicza, Z., Andjic, B., & Kreis, Y. (2024). Artful Pathways to Interreligious Understanding: Student Responses on STE(Arts)M Integration Through Maker Education in Interreligious Learning. *Greek Journal of Religious Education*, 7(1), 14–35. <https://doi.org/10.12681/gjre.39546>

[2024]

[Transitioning from lectures to online flipped classrooms: enhancing pre-service teacher education in Luxembourg](#)

Kreis, Y., Haas, B., Weinhandl, R., & Lavicza, Z. (2024). Transitioning from Lectures to Online Flipped Classrooms: Enhancing Pre-Service Teacher Education in Luxembourg. *Cogent Education*, 11(1). <https://doi.org/10.1080/2331186X.2024.2425895>

[2024]

[Affective, meta and collaborative STEAM learning](#)

Houghton, T., Lavicza, Z., Weinhandl, R., Rahmadi, I. F., Békési, B., & Kreis, Y. (2024). Affective, meta and collaborative STEAM learning. *International Journal of Educational Technology and Learning*, 16(2), 8–16. <https://doi.org/10.55217/101.v16i2.802>

[2024]

[Expectation shock in education: utilising industry SERVQUAL to enhance student perception of STEAM and STEAM careers](#)

Houghton, T., Lavicza, Z., Weinhandl, R., Rhamadi, I. F., Békési, B., & Kreis, Y. (2024). Expectation shock in education: Utilising industry SERVQUAL to enhance student perception of STEAM and STEAM careers. *International Journal of Technology Enhanced Learning*, 16(1), 1–15. <https://doi.org/10.1504/IJTEL.2024.135425>

[2023]

[STEAM Trails in Outdoor Learning Environments around the Egyptian Pyramids Complex](#)

El Bedewy, S., Lavicza, Z., Haas, B., & Kreis, Y. (2023). STEAM Trails in Outdoor Learning Environments around the Egyptian Pyramids Complex. *Research in Integrated STEM Education*, 1(3), 422–450. <https://doi.org/10.1163/27726673-bja00017>

[2023]

[Learning and Teaching with Outdoor STEAM Education](#)

Haas, B., Kreis, Y., Jablonski, S., & Cahyono, A. N. (2023). Learning and Teaching with Outdoor STEAM Education. *Research in Integrated STEM Education*, 1(3), 373–376. <https://doi.org/10.1163/27726673-00101007>

[2023]

[Learning and Teaching with Outdoor STEAM Education](#)

Haas, B., Kreis, Y., Jablonski, S., & Cahyono, A. N. (Eds.). (2023). Special Issue: Learning and Teaching with Outdoor STEAM Education. *Research in Integrated STEM Education*, 1(3), 373–450.

[2023]

Problem-Based Learning about Error Detection and Correction in Locus Problems with the Aid of Geogebra Software

Sy Nam, P., Nguyen, N.-G., Anh Tuong, H., Haas, B., Lavicza, Z., & **Kreis, Y.** (2023). Problem-Based Learning about Error Detection and Correction in Locus Problems with the Aid of Geogebra Software. *International Journal for Technology in Mathematics Education*, 30(3), 181–190. https://doi.org/10.1564/tme_v30.3.9

[2023]

Can you create? Visualising and modelling real-world mathematics with technologies in STEAM educational settings

Haas, B., Lavicza, Z., Houghton, T., & **Kreis, Y.** (2023). Can you create? Visualising and modelling real-world mathematics with technologies in STEAM educational settings. *Current Opinion in Behavioral Sciences*, 52, 101297. <http://doi.org/10.1016/j.cobeha.2023.101297>

[2023]

Parent's experience in remote learning with digital and physical mathematical modelling

Haas, B., Lavicza, Z., & **Kreis, Y.** (2023). Parent's experience in remote learning during COVID-19 with digital and physical mathematical modelling. *Research and Practice in Technology Learning*, 18, 21. <https://doi.org/10.58459/rptel.2023.18013>

[2022]

Evaluating Technology-Enhanced, STEAM-Based Remote Teaching With Parental Support in Luxembourgish Early Childhood Education

Haas, B., Lavicza, Z., Houghton, T., & **Kreis, Y.** (2022). Evaluating Technology-Enhanced, STEAM-Based Remote Teaching With Parental Support in Luxembourgish Early Childhood Education. *Frontiers in Education*, 7(872479), 1-12. <https://doi.org/10.3389/feduc.2022.872479>

[2022]

Exploring Mathematical concepts in an Ecosystem of STEAM Learning, consisting of Physical Objects, Digital Toolkits and Tutoring Systems, 3D Printing and Outdoor Mathematical Trails

Haas, B., **Kreis, Y.**, Lavicza, Z., Houghton, T., & Fenyvesi, K. (2022). *Exploring Mathematical concepts in an Ecosystem of STEAM Learning, consisting of Physical Objects, Digital Toolkits and Tutoring Systems, 3D Printing and Outdoor Mathematical Trails* [Poster]. Twelfth Congress of the European Society for Research in Mathematics Education (CERME 12), Online.

[2021]

Case study on augmented reality, digital and physical modelling with mathematical learning disabilities students in an elementary school in Luxembourg

Haas, B., **Kreis, Y.**, & Lavicza, Z. (2021). Case study on augmented reality, digital and physical modelling with mathematical learning disabilities students in an elementary school in Luxembourg. *International Journal for Technology in Mathematics Education*, 28(3), 125-132. https://doi.org/10.1564/tme_v28.3.02

[2021]

Integrated STEAM Approach in Outdoor Trails with Elementary School Pre-service Teachers in Luxembourg

Haas, B., **Kreis, Y.**, & Lavicza, Z. (2021). Integrated STEAM Approach in Outdoor Trails with Elementary School Pre-service Teachers in Luxemburg. *Educational Technology and Society*, 24(4), 205-219.

[2021]

eJMT Problem Corner: June 2021

Kreis, Y., Haas, B., & Lavicza, Z. (2021). eJMT Problem Corner: June 2021. *The Electronic Journal of Mathematics & Technology*. <https://php.radford.edu/~ejmt/ProblemCorner.php>

[2020]

PIAF : développer la Pensée Informatique et Algorithmique dans l'enseignement Fondamental

Busana, G., Denis, B., Duflot-Kremer, M., Higuët, S., Kataja, L., **Kreis, Y.**, Laduron, C., Meyers, C., Parmentier, Y., Reuter, R., & Weinberger, A. (2020). *PIAF : développer la Pensée Informatique et Algorithmique dans l'enseignement Fondamental*. Ad. Didapro 8 – DidaSTIC: L'informatique, objets d'enseignements – enjeux épistémologiques, didactique et de formation, Lille, France.

https://www.didapro.org/8/wp-content/uploads/sites/4/2020/01/Didapro_8_paper_22.pdf

[2020]

Connecting the real world to mathematical models in elementary schools in Luxemburg

Haas, B., **Kreis, Y.**, & Lavicza, Z. (2020). Connecting the real world to mathematical models in elementary schools in Luxemburg. *Proceedings of the British Society for Research into Learning Mathematics*, 40(2), 1-6.

<https://bsrlm.org.uk/wp-content/uploads/2020/10/BSRLM-CP-40-2-06.pdf>

[2020]

Fostering process skills with the educational technology software MathemaTIC in elementary schools

Haas, B., **Kreis, Y.**, & Lavicza, Z. (2020). Fostering process skills with the educational technology software MathemaTIC in elementary schools. In A., Donevska-Todorova, E., Faggiano, J., Trgalova, Z., Lavicza, R., Weinhandl, A., Clark-Wilson, & H.- G., Weigand (Eds.), *Proceedings of the 10th ERME TOPIC CONFERENCE (ETC10) on Mathematics Education in the Digital Age (MEDA)* (pp. 199-206). Linz, Austria: Johannes Kepler University.

<https://drive.google.com/file/d/1onuTtshYC9SzkaswGT4twM2QE0yWpsX/view>

[2020]

Reflections on our teaching activities in the initial teacher training during the COVID-19 crisis: From “onsite classes” to “schooling at home”

Kreis, Y., Haas, B., Reuter, R., Meyers, C., & Busana, G. (2020). Reflections on our teaching activities in the initial teacher training during the COVID-19 crisis: From “onsite classes” to “schooling at home”. In G., Mein & J., Pause (Eds.), *Self and Society in the Corona Crisis: Perspectives from the Humanities and Social Sciences*. Esch-sur-Alzette, Luxembourg: Melusina Press. <https://doi.org/10.26298/c4j7-5x48>

[2020]

Discovering Everyday Mathematical Situations Outside the Classroom with MathCityMap and GeoGebra 3D

Lavicza, Z., Haas, B., & **Kreis, Y.** (2020). Discovering Everyday Mathematical Situations Outside the Classroom with MathCityMap and GeoGebra 3D. In M., Ludwig, S., Jablonski, A., Caldeira, & A., Moura (Eds.), *Research on Outdoor STEM Education in the digiTal Age: Proceedings of the ROSETA Online Conference in June 2020* (pp. 23-30). Münster, Germany: WTM. <https://doi.org/10.37626/GA9783959871440.0.03>

[2020]

PIAF: Developing Computational and Algorithmic Thinking in Fundamental Education

Parmentier, Y., Reuter, R., Higuete, S., Kataja, L., **Kreis, Y.**, Duflot-Kremer, M., Laduron, C., Meyers, C., Busana, G., Weinberger, A., & Denis, B. (2020). PIAF: Developing Computational and Algorithmic Thinking in Fundamental Education. *Proceedings of EdMedia + Innovate Learning*, 2020(1), 315-322.

<https://www.learntechlib.org/primary/p/217317/>

[2018]

Dynamische Mathematik und computergestützte Tests: GeoGebra in TAO

Kreis, Y., Dording, C., Keller, U., Porro, V., & Jadoul, R. (2018). Dynamische Mathematik und computergestützte Tests: GeoGebra in TAO. In S., Ladel, J., Knopf, & A., Weinberger (Eds.), *Digitalisierung und Bildung* (pp. 59-80). Wiesbaden, Germany: Springer VS. https://doi.org/10.1007/978-3-658-18333-2_4

[2017]

Die Lernplattform MathemaTIC: Digitales Erlernen der kognitiven Prozesse im Sachrechnen im Alter von 8 bis 10 Jahren

Haas, B., Kesting, F., Martin, R., **Kreis, Y.**, & Koenig, V. (2017). Die Lernplattform MathemaTIC: Digitales Erlernen der kognitiven Prozesse im Sachrechnen im Alter von 8 bis 10 Jahren. In U., Kortenkamp & A., Kuzle (Eds.), *Beiträge zum Mathematikunterricht 2017* (pp. 1333-1336). Münster, Deutschland: WTM-Verlag.

<https://doi.org/10.17877/DE290R-18593>

[2017]

Évaluation du projet d'innovation pédagogique : L'allemand comme langue véhiculaire dans le cours de mathématiques au cycle inférieur de l'EST à l'ALR

Pelt, V., Ugen, S., Milmeister, M., Weis, C., & **Kreis, Y.** (2017). *Évaluation du projet d'innovation pédagogique : L'allemand comme langue véhiculaire dans le cours de mathématiques au cycle inférieur de l'EST à l'ALR. Rapport détaillé. Année 1.* Luxembourg: MENJE/SCRIPT.

[2017]

Évaluation du Projet pilote : Le Cours de Mathématiques en Allemand au Maacher Lycée

Pelt, V., Ugen, S., Milmeister, M., Weis, C., & **Kreis, Y.** (2017). *Évaluation du Projet pilote : Le Cours de Mathématiques en Allemand au Maacher Lycée. Rapport détaillé. Année 1.* Luxembourg: MENJE/SCRIPT.

[2016]

GeoGebraTAO, validation of an adaptive learning environment of dynamic geometry. Source of a differentiation individual pathway of the student?

Dording, C., Martin, R., **Kreis, Y.**, & Latour, T. (2016). *GeoGebraTAO, validation of an adaptive learning environment of dynamic geometry. Source of a differentiation individual pathway of the student?* 13th International Congress on Mathematical Education, Hamburg, Germany.

[2016]

L'utilisation de l'environnement numérique MathemaTIC pour développer les compétences dans le domaine de la résolution de problèmes arithmétiques

Haas, B., **Kreis, Y.**, Koenig, V., & Martin, R. (2016). *L'utilisation de l'environnement numérique MathemaTIC pour développer les compétences dans le domaine de la résolution de problèmes arithmétiques*. Évaluation en mathématiques : dispositifs, validités & pratiques, Paris, France.

[2016]

Using interactive items in arithmetic problems to help Grade 3 students shift from intuitive to arithmetic-based strategies and create mental representation

Haas, B., Martin, R., & **Kreis, Y.** (2016). *Using interactive items in arithmetic problems to help Grade 3 students shift from intuitive to arithmetic-based strategies and create mental representation* [Poster]. 13th International Congress on Mathematical Education, Hamburg, Germany.

[2016]

The personalized and multilingual mathematical learning environment MathemaTIC

Kreis, Y., Bertemes, J., Kafai-Afif, A., & Haas, B. (2016). *The personalized and multilingual mathematical learning environment MathemaTIC*. 13th International Congress on Mathematical Education, Hamburg, Germany.

[2015]

GeoGebraTAO, validation of an Adaptive Learning Environment of dynamic geometry. Source of a differentiation individual pathway of the student?

Dording, C., Martin, R., **Kreis, Y.**, & Latour, T. (2015). *GeoGebraTAO, validation of an Adaptive Learning Environment of dynamic geometry. Source of a differentiation individual pathway of the student?* [Poster] European Association for Practitioner Research on Improving Learning (EAPRIL) 2015 Conference, Esch-sur-Alzette, Luxembourg.

[2015]

MathemaTIC

Kreis, Y. (2015). *MathemaTIC* [Workshop]. European Association for Practitioner Research on Improving Learning (EAPRIL) 2015 Conference, Esch-sur-Alzette, Luxembourg.

[2012]

Entdeckendes Lernen im Mathematikunterricht der Grundschule: Natürliche Zahlen (3. Aufl)

Kreis, Y. (2012). *Entdeckendes Lernen im Mathematikunterricht der Grundschule: Natürliche Zahlen* (3. Aufl). Walferdange, Luxembourg: University of Luxembourg.

[2011]

Entdeckendes Lernen im Mathematikunterricht der Grundschule: Geometrie (2. Aufl)

Kreis, Y. (2011). *Entdeckendes Lernen im Mathematikunterricht der Grundschule: Geometrie* (2. Aufl). Walferdange, Luxembourg: University of Luxembourg.

[2010]

First International GeoGebra Conference 2009

Chrysanthou, I., Hohenwarter, J., Hohenwarter, M., Hreinsdóttir, F., **Kreis, Y.**, Lavicza, Z., Lindner, A., Papp-Varga, S., Parish, A., Recio, T., Sanne, A., Stepancik, E., & Winkowska-Nowak, K. (2010). *First International GeoGebra Conference 2009* [Report]. Johannes Kepler University Linz.

[2010]

i2g Common File Format Final Version

Egido, S., Hendriks, M., **Kreis, Y.**, Kortenkamp, U., Marquès, D., Hohenwarter, M., Laborde, J.-M., & Libbrecht, P. (2010). *i2g Common File Format Final Version* P(Public Deliverable 3.10; ECP 2006 EDU 410016 Intergeo, p. 44).

<http://i2geo.net/files/deliverables/D3.10-Common-File-Format.pdf>

[2010]

Interoperable Interactive Geometry for Europe - First Technological and Educational results and future challenges of the Intergeo project

Kortenkamp, U., Blessing, A. M., Dohrmann, C., **Kreis, Y.**, Libbrecht, P., & Mercat, C. (2010). Interoperable Interactive Geometry for Europe - First Technological and Educational results and future challenges of the Intergeo project. In V., Durand-Guerrier, S., Soury-Lavergne, & F., Arzarello (Eds.), *Proceedings of the Sixth Congress of the European Society for Research in Mathematics Education* (pp. 1150-1160). Lyon, France: Institut National de Recherche Pédagogique (INRP).

<http://ife.ens-lyon.fr/publications/edition-electronique/cerme6/wg7-11-kortenkamp.pdf>

[2010]

Konstruktionsbeschreibungen und DGS

Kortenkamp, U., & **Kreis, Y.** (2010). Konstruktionsbeschreibungen und DGS. In A. M., Lindmeier & S., Ufer (Eds.), *Beiträge zum Mathematikunterricht 2010* (pp. 501-504). Münster, Germany: WTM-Verlag.

<https://doi.org/10.17877/DE290R-13520>

[2010]

GeoGebraPrim - GeoGebra in der Grundschule

Kreis, Y., Dording, C., & Keller, U. (2010). GeoGebraPrim - GeoGebra in der Grundschule. In A. M., Lindmeier & S., Ufer (Eds.), *Beiträge zum Mathematikunterricht 2010* (pp. 513-516). Münster, Germany: WTM-Verlag.

<https://doi.org/10.17877/DE290R-13545>

[2010]

Dynamic mathematics and computer-assisted testing: GeoGebra inside TAO

Kreis, Y., Dording, C., Porro, V., & Jadoul, R. (2010). Dynamic mathematics and computer-assisted testing: GeoGebra inside TAO. In U., Kortenkamp, P., Pech, C., Dohrmann, & R., Hašek (Eds.), *Proceedings of the Interoperable Interactive Geometry Conference 2010*.

<https://cermat.org/i2geo2010/downloads/files/I2GEO2010-Kreis.pdf>

[2009]

The Intergeo File Format in Progress

Abánades, M., Botana, F., Escribano, J., Hendriks, M., Kortenkamp, U., **Kreis, Y.**, Libbrecht, P., Marques, D., & Mercat, C. (2009). The Intergeo File Format in Progress. In J. H., Davenport (Ed.), *Proceedings of the 22nd OpenMath Workshop* (pp. 17-30). Bath, United Kingdom: University of Bath Press & OpenMath Society.

[2009]

Report on Implementations of the Common File Format

Hendriks, M., Kortenkamp, U., **Kreis, Y.**, Marquès, D., Badia, E., Egido, S., & Wassermann, A. (2009). *Report on Implementations of the Common File Format* (Restricted Deliverable 3.8; ECP 2006 EDU 410016 Intergeo, p. 22).

http://i2geo.net/files/deliverables/D3.8_Implementations_files_format.pdf

[2009]

i2g Common File Format Draft v2

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Jury: Lorenz, J. H. (Promotor), & Wessolowski, S.

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Jury: Delagardelle, J.-C. (Promotor).

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EDITORIAL BOARD MEMBERSHIP

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International Journal of Educational Innovation and Research

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[2022 – Current]

pratica

Link: <https://parc.ipp.pt/index.php/elearning/about>

[2021 – Current]

International Research Journal of Science, Technology, Education, and Management

Link: <https://irjstem.com>

[2018 – Current]

International Journal for Technology in Mathematics Education

Link: <http://ijtme.researchinformation.co.uk>

[2012 – Current]

The Electronic Journal of Mathematics & Technology (ejTM)

Link: <https://php.radford.edu/~ejmt/>

[2022]

Education Sciences

Link: <https://www.mdpi.com/journal/education>

[2010]

ZDM – Mathematics Education

Link: <https://www.springer.com/journal/11858>

CONFERENCES AND SEMINARS

[9 Sep 2025 – 11 Sep 2025] Esch-sur-Alzette, Luxembourg

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2025

Conference Co-Chair

Member of the Program Committee

Member of the Scientific Committee

Link: <https://cadg.me/2025>

[28 Oct 2024 – 16 Apr 2025] Online

ISEP SEMINARS on Novel Teaching Methodologies 2024/2025

Member of the Scientific Committee

Link: https://www.isep.ipp.pt/Page/ViewPage/ISEP_Seminars

[6 Feb 2025 – 12 Feb 2025] Fray Bentos, Uruguay & Buenos Aires, Argentina

3rd Latin American STEAM Education Research Conference + Summer School

Member of the Scientific Committee

Link: <https://steameducation.la/index.php/en/home/>

[6 Nov 2024 – 7 Nov 2024] Esch-sur-Alzette, Luxembourg

LuxERA Conference 2024

Speaker with Carole Dording

[*New opportunities for an equity-oriented form of STEAM education using an electronic platform*](#)

Speaker with Kateryna Ivanishchenko

[*Joyful Schools: active learning strategies for health, wellbeing and growth mindset*](#)

Link: https://www.luxera.lu/wp-content/uploads/2024/10/BEFORE-2024_Conference-program-LuxERA.pdf

[4 Jul 2024 – 5 Jul 2024] Porto, Portugal

Porto Pedagogical Innovation Conference 2024 (P.PIC'24)

Member of the Scientific Committee

Link: <https://cip.ipp.pt/ppic2024/>

[17 Apr 2024 – 19 Apr 2024] Linz, Austria

Second International Symposium on 3D Printing in Mathematics Education

Speaker with Rusmir Husic

[*Beyond the Classroom: Increasing Student's self-esteem through 3D modelling*](#)

Link: <https://www.3dmatheducation.com/>

[23 Feb 2024 – 23 Feb 2024] Esch-sur-Alzette, Luxembourg

Advancing Competence in Teaching for student success: Teaching Day

Speaker

[*Unlocking Excellence: The Transformative Power of the Flipped Classroom in Initial Teacher Training*](#)

Speaker with Robert A.P. Reuter

[*Unleashing Pedagogical Innovation: Design Projects in Initial Teacher Training*](#)

[5 Feb 2024 – 9 Feb 2024] Buenos Aires, Argentina

2nd Latin American STEAM Education Research Conference + Summer School

Member of the Scientific Committee

Link: <https://steameducation.la/index.php/en/home/>

[15 Jan 2024] Esch-sur-Alzette, Luxembourg

Recruitment “Full Professor or Associate Professor (promotion track) for STEM Education”

Interviewee

[*Enhancing STE\(A\)M Education with Emerging Technologies: The Power of Evidence Based Innovation and Creativity*](#)

[11 Sep 2023 – 13 Sep 2023] Catania, Italy

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2023

Member of the Scientific Committee

Link: <https://sites.google.com/view/cadgme2023/home-page>

[6 Jul 2023 – 7 Jul 2023] Porto, Portugal

Porto Pedagogical Innovation Conference 2023 (P.PIC'23)

Member of the Scientific Committee

Link: <https://cip.ipp.pt/ppic2023/>

[23 Nov 2022 – 15 Feb 2023] Online

ISEP SEMINARS on Novel Teaching Methodologies 2022/2023

Member of the Scientific Committee

Link: https://www.isep.ipp.pt/Page/ViewPage/ISEP_Seminars

[6 Feb 2023 – 10 Feb 2023] Online

Latin American STEAM Education Research Conference + Summer School

Member of the Scientific Committee

Invited Speaker with Ben Haas

STEAM integrated approach in primary grades in Luxembourg

Link: <https://www.geogebra.org/m/ftvrhhgx>

[15 Dec 2022 – 16 Dec 2022] Online

Doctoral Students' Conference: Tradition, Development & Innovation in Didactics - Early Career Researchers Conference (TDID - ERC)

Speaker with Eva Ulbrich and Rusmir Husic

Connecting Culture to Geometry - problem based learning across subjects

Link: <http://sddid.psiedu.ubbcluj.ro/tdidecr2022.htm>

[6 Oct 2022 – 7 Oct 2022] Online

International Symposium on Augmented and Virtual Reality in Mathematics Education

Speaker with Eva Ulbrich

3D Modelling for AR and 3D printing in Teacher Training

Speaker with Ben Haas

Augmented Reality in primary education: New learning opportunities for students with learning difficulties in mathematics education

Link: <https://www.uni-siegen.de/fb6/didaktik/veranstaltungen/symposiumarvr.html>

[12 Sep 2022 – 14 Sep 2022] Jerusalem, Israel

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2022

Member of the Scientific Committee

Speaker with Eva Ulbrich

3D printed mathematics visualisations by STEAM teachers

Link: <https://www.geogebra.org/m/vwds6x4b>

[22 Aug 2022 – 27 Aug 2022] Linz, Austria

12th YERME Summer School (YESS-12)

Member of the Local Organisation Committee

Link: <https://www.jku.at/linz-school-of-education/yess-12/>

[31 Mar 2022 – 2 Jun 2022] Online

ISEP SEMINARS on Novel Teaching Methodologies 2021/2022

Member of the Scientific Committee

Link: https://www.isep.ipp.pt/Page/ViewPage/ISEP_Seminars

[2 Feb 2022 – 5 Feb 2022] Online

Twelfth Congress of the European Society for Research in Mathematics Education (CERME 12)

Poster Presenter with Ben Haas

[Exploring Mathematical concepts in an Ecosystem of STEAM Learning, consisting of Physical Objects, Digital Toolkits and Tutoring Systems, 3D Printing and Outdoor Mathematical Trails](#)

Link: <https://www.cerme12.it>

[5 Jul 2021] Online

INSTEAD VII - Workshop on Innovative Teaching Methodologies for Math Courses on Engineering Degrees

Member of the Scientific Committee

Link: <https://www.isep.ipp.pt/Page/ViewPage/InsteadVII>

[24 Jun 2021] Online

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) Online Gathering 2021

Member of the Scientific Committee

Invited Speaker with Ben Haas

[Iterative STEAM design in primary grades and in pre-service teacher training](#)

Link: <https://www.geogebra.org/m/nynse8yw>

[25 Nov 2020 – 2 Jun 2021] Online

ISEP SEMINARS on Novel Teaching Methodologies 2020/2021

Member of the Scientific Committee

Invited Speaker

[Transition from traditional to hybrid to online courses for pre-service elementary school teachers at the University of Luxembourg: STEAM integrated approach in the project MathEduc @ BScE](#)

Link: https://www.isep.ipp.pt/Page/ViewPage/ISEP_Seminars

[27 May 2021 – 29 May 2021] Online

Designing Innovations in STEAM Education

Member of the Organising Committee

Speaker

First results of the iterative STEAM design process in 3D modelling and printing with pre-service teachers

Link: <https://www.geogebra.org/m/s5cvdktu>

[29 Mar 2021 – 9 Apr 2021] Online

Regular Course on Integrating ICT in Mathematics Education for Junior High School Mathematics Teachers

Invited Speaker with Ben Haas

[The STEAM skilled child: How children can learn to apply STEAM skills to their living environment](#)

[22 Mar 2021 – 26 Mar 2021] Online

Intensive training school in qualitative research design and research methods in mathematics education

Invited Speaker with Ben Haas

[Mixed-methods research in STEAM outdoor trails in elementary school pre-service teacher training](#)

[18 Mar 2021 – 19 Mar 2021] Online

Early-Career Researchers in STEAM Education

Member of the Organising Committee

Speaker

[3D Modelling in online learning for pre-service elementary school teachers at the University of Luxembourg](#)

Link: <https://www.geogebra.org/m/qsgvgspn>

[17 Feb 2021] Online

3D printing in STEAM Education seminar at LSEd, JKU

Member of the Organising Committee

Speaker

[3D modelling for pre-service primary school teachers in mathematics education](#)

Link: <https://www.geogebra.org/m/uy4n6mku>

[14 Jan 2021] Online

PhD Research Seminar

Invited Speaker

[MathEduc @ BScE](#)

[14 Dec 2020 – 16 Dec 2020] Online

Asian Technology Conference in Mathematics

Speaker with Ben Haas

[Outdoor STEAM integrated framework in elementary schools in Luxembourg using MathCityMap and GeoGebra 3D Calculator](#)

Link: <https://sites.radford.edu/~atcm/>

[10 Dec 2020] Online

PhD Proposal feedback

Speaker with Ben Haas

[Transition from in-class to outdoor learning with real-world mathematical modelling: PhD research project 2015-2021](#)

[11 Nov 2020 – 12 Nov 2020] Online

LuxERA (Semi-)Virtual Conference 2020

Speaker with Carole Dording

[GeoGebraTAO: Geometry Learning using a Dynamic Adaptive ICT-Enhanced Environment to Promote String Differentiation of Children's Individual Pathways](#)

Speaker with Ben Haas

[The use of augmented reality, digital and physical modelling in schooling at home in early childhood in Echternach](#)

Link: https://www.luxera.lu/wp-content/uploads/2020/10/LuxERA_Conference_Booklet_2020_Final.pdf

[16 Sep 2020 – 18 Sep 2020] Linz, Austria

10th ERME Topic Conference (ETC10) on Mathematics Education in the Digital Age (MEDA)

Speaker with Ben Haas

[Fostering process skills with the educational technology software MathemaTIC in elementary schools](#)

[3 Jul 2020] Online

New Researcher's Day Conference

Speaker with Ben Haas

[STEAM Education in elementary schools: A holistic investigation on technology enhanced teaching and learning](#)

Link: <https://bsrlm.org.uk/bsrlm-new-researchers-day-virtual-conference-2020/>

[25 Jun 2020 – 26 Jun 2020] Online

INSTEAD VI - Workshop on Innovative Teaching Methodologies for Math Courses on Engineering Degrees

Speaker with Ben Haas

[STEAM in special needs education in an elementary school in Luxemburg](#)

Link: https://www.isep.ipp.pt/Page/ViewPage/WorkshopVI_RT

[23 Jun 2020 – 26 Jun 2020] Online

EdMedia + Innovate Learning 2020

Speaker with Bob Reuter et al.

[PIAF: Developing Computational and Algorithmic Thinking in Fundamental Education](#)

[23 Jun 2020] Online

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) Online Gathering 2020

Member of the Scientific Committee

Invited Speaker with Ben Haas

[Innovative uses of technologies for STEAM education in elementary schools in Luxemburg](#)

Link: <https://www.geogebra.org/m/grpfh8xk>

[17 Jan 2020 – 18 Jan 2020] Linz, Austria

Pedagogical Innovations in STEAM Education Conference

Speaker with Ben Haas

[Fostering process related skills in mathematics through educational technology in elementary schools](#)

Link: <https://www.geogebra.org/m/tsnr5dpj>

[24 Apr 2019] Belval, Luxembourg

Teaching Showcase

Invited Speaker

[Flipped classroom and didactic approach in big classrooms](#)

[25 Jun 2018 – 29 Jun 2018] Coimbra, Portugal

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2018

Member of the Scientific Committee

Link: <https://www.uc.pt/en/congressos/cadgme2018/>

[11 May 2017] Dudelange, Luxembourg

Journée expert externe

Invited Speaker

[70 = 3D](#)

[27 Feb 2017 – 3 Mar 2017] Potsdam, Germany

51. Jahrestagung der Gesellschaft für Didaktik der Mathematik (GDM)

Speaker with Ben Haas

[Die Lernplattform MathemaTIC: Digitales Erlernen der kognitiven Prozesse im Sachrechnen im Alter von 8 bis 10 Jahren](#)

Link: <https://2017.gdm-tagung.de>

[7 Sep 2016 – 10 Sep 2016] Targu Mures, Romania

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2016

Member of the Scientific Committee

Link: <https://cadgme.ms.sapientia.ro/>

[24 Jul 2016 – 31 Jul 2016] Hamburg, Germany

13th International Congress on Mathematical Education (ICME)

Speaker

[The personalized and multilingual mathematical learning environment MathemaTIC](#)

Speaker with Carole Dording

[GeoGebraTAO, validation of an adaptive learning environment of dynamic geometry. Source of a differentiation individual pathway of the student?](#)

Poster Presenter with Ben Haas

[Using interactive items in arithmetic problems to help Grade 3 students shift from intuitive to arithmetic-based strategies and create mental representation](#)

Link: [https://www.mathunion.org/fileadmin/ICMI/Conferences/ICME/ICME 13/www.icme13.org/www.icme13.org/icmi_and_german_mathematics_education.html](https://www.mathunion.org/fileadmin/ICMI/Conferences/ICME/ICME%2013/www.icme13.org/www.icme13.org/icmi_and_german_mathematics_education.html)

[27 Apr 2016 – 26 Jul 2016] Saarbrücken, Deutschland

Ringvorlesung "Digitalisierung und Bildung"

Invited Speaker

[Dynamische Mathematik in der Grundschule](#)

Link: <https://digitalebildungsstelle.wordpress.com/>

[7 Mar 2016 – 11 Mar 2016]

50. Jahrestagung der Gesellschaft für Didaktik der Mathematik (GDM)

Speaker

[*Die personalisierte und mehrsprachige mathematische Lernumgebung MathemaTIC*](#)

Speaker with Carole Dording

[*GeoGebraTAO - eine dynamische Software für ein niveauangemessenes selbstständiges Arbeiten in Geometrie?*](#)

[24 Nov 2015 – 27 Nov 2015] Esch-sur-Alzette, Luxembourg

European Association for Practitioner Research on Improving Learning (EAPRIL) 2015 Conference

Workshop Animator

[*MathemaTIC*](#)

Poster Presenter

[*GeoGebraTAO, validation of an Adaptive Learning Environment of dynamic geometry. Source of a differentiation individual pathway of the student?*](#)

Link: <https://eapril.org/eapril-2015>

[26 Sep 2014 – 29 Sep 2014] Halle (Saale), Germany

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2014

Member of the Scientific Committee

Link: <https://cadgme2014.ceremat.org/>

[22 Jun 2012 – 24 Jun 2012] Novi Sad, Serbia

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2012

Member of the Scientific Committee

Link: <https://sites.dmi.uns.ac.rs//cadgme2012/>

[30 Mar 2011 – 31 Mar 2011] Luxembourg, Luxembourg

TAO Days 2011

Invited Speaker

[*GeoGebra\(Mobile\) and TAO 2.0: Unleashing the power of assessment in geometry*](#)

[27 Jul 2010 – 28 Jul 2010] Ithaca, NY, USA

The First North American GeoGebra Conference

Keynote Speaker

[*GeoGebra - Dynamic Mathematics for Everyone*](#)

[2 Jul 2010 – 3 Jul 2010] Hluboká nad Vltavou, Czech Republic

Interoperable Interactive Geometry (I2GEO) Conference 2010

Member of the Program Committee

Keynote Speaker with Ulrich Kortenkamp

[*Technical Aspects of Intergeo*](#)

Speaker

[*Dynamic mathematics and computer-assisted testing: GeoGebra inside TAO*](#)

Link: <https://cermat.org/i2geo2010/>

[29 Jun 2010 – 1 Jul 2010] Hluboká nad Vltavou, Czech Republic

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2010

Member of the Scientific Committee

Speaker

[*GeoGebraPrim - GeoGebra for Primary School*](#)

[*The Future of GeoGebra*](#)

Link: <http://home.pf.jcu.cz/~cadgme2010/>

[8 Mar 2010 – 12 Mar 2010] Munich, Germany

Gemeinsame Jahrestagung der Deutschen Mathematiker-Vereinigung (DMV) und der Gesellschaft für Didaktik der Mathematik (GDM) 2010

Speaker

[*GeoGebraPrim - GeoGebra in der Grundschule*](#)

Speaker with Ulrich Kortenkamp

[*Konstruktionsbeschreibungen und DGS*](#)

[13 Nov 2009 – 14 Nov 2009] Barcelona, Spain

GeoGebra, un instrument per al desenvolupament de les competències matemàtiques de l'alumnat de Primària, de l'ESO i del Batxillerat

Keynote Speaker

[*The project GeoGebraPrim - GeoGebra for Primary School*](#)

Link: <https://acgeogebra.cat/2jornades/index.htm>

[14 Jul 2009 – 15 Jul 2009] Hagenberg, Austria

First International GeoGebra Conference

Work Group Moderator with Markus Hohenwarter

[*Software Development & Online Systems: CAS*](#)

[*Software Development & Online Systems: Extensions*](#)

Link: <http://ggbconference2009.pbworks.com/w/page/5411941/FrontPage>

[11 Jul 2009 – 13 Jul 2009] Hagenberg, Austria

Computer Algebra and Dynamic Geometry Systems in Mathematics Education (CADGME) 2009

Speaker

[*GeoGebraPrim - GeoGebra for Primary School*](#)

Workshop Animator

[*GeoGebra 3.2 - The new Spreadsheet View*](#)

Working Group Moderator with Ulrich Kortenkamp

[*Intergeo: fostering the use of Dynamic Geometry Software in Europe*](#)

Link: <https://www3.risc.jku.at/conferences/cadgme2009/>

[6 Jul 2009 – 9 Jul 2009] Metz, France

The Ninth International Conference on Technology in Mathematics Teaching (ICTMT 9)

Speaker

[GeoGebraPrim - GeoGebra for Primary School](#)

[GeoGebra 3.2 - The new Spreadsheet View](#)

Speaker with Ulrich Kortenkamp

[Using the Intergeo Platform for Teaching and Research](#)

Speaker with Zsolt Lavicza

[International GeoGebra Institute: nurturing a community to assist the integration of the open-source mathematics software GeoGebra into mathematics teaching](#)

Link: <http://educmath.ens-lyon.fr/Educmath/dossier-manifestations/archives/ictmt-9/>

[28 Jan 2009 – 1 Feb 2009] Lyon, France

Sixth Congress of the European Society for Research in Mathematics Education (CERME 6)

Speaker with Ulrich Kortenkamp

[Interoperable Interactive Geometry for Europe - First Technological and Educational results and future challenges of the Intergeo project](#)

[29 Oct 2008] Barcelona, Spain

I Jornada de l'Associació Catalana de GeoGebra (ACG)

Keynote Speaker

[New perspectives on the use of GeoGebra for improving teaching quality](#)

[6 Jul 2008 – 13 Jul 2008] Monterrey, Mexico

11th International Congress on Mathematical Education (ICME 11)

Speaker with Markus Hohenwarter

[Teaching and Learning Calculus with Free Dynamic Mathematics Software GeoGebra](#)

Workshop Animator with Markus Hohenwarter

[GeoGebra – free dynamic mathematics software](#)

Poster Presenter with Markus Hohenwarter

[GeoGebra – free software for dynamic geometry, algebra and calculus](#)

[Mathematics teacher development and technology: towards an International GeoGebra Institute](#)

Poster Presenter with Ulrich Kortenkamp

[Intergeo - Interoperable Interactive Geometry for Europe](#)

Link: <https://www.mathunion.org/fileadmin/ICMI/Conferences/ICME/ICME11/www.icme11.org/index.html>

[7 May 2008] Cambridge, United Kingdom

First Meeting of the International GeoGebra Institute (IGI)

Invited Speaker

[GeoGebra-related activities at the University of Luxembourg](#)

[13 Mar 2008 – 18 Mar 2008] Budapest, Hungary

42. Tagung für Didaktik der Mathematik

Speaker

[Negative Zahlen in der Grundschule](#)

Speaker with Ulrich Kortenkamp

[Intergeo - Interoperable Interactive Geometry for Europe](#)

Speaker with Zsolt Lavicza

[Technology professional development and research collaboration: Towards an International GeoGebra Institute](#)

[13 Mar 2008 – 14 Mar 2008] Luxembourg, Luxembourg

5e Rencontre Internationale Pédagogie & Psychologie: Rechenschwierigkeiten (Beschreibung - Diagnostik - Förderung)

Keynote Speaker

[Kann ein DGS den Geometrieunterricht für alle Kinder verändern?](#)

[31 Jan 2008 – 2 Feb 2008] Barcelona, Spain

3rd JEM Workshop

Speaker

[Intergeo - Interoperable Interactive Geometry for Europe](#)

[11 Sep 2006 – 13 Sep 2006] Luxembourg, Luxembourg

19e Colloque International de l'ADMEE-Europe

Member of the Organisation Committee

Link: <https://admee.uni.lu/admee-2006/>

TEACHING EXPERIENCE AT UNIVERSITY LEVEL

[Feb 2024 – Current]

Pädagogisches Projekt - Didaktik der Mathematik

Bachelor en Formation Pédagogique (Bachelor Professionnel) @ University of Luxembourg

[Sep 2023 – Current]

Didaktik der Mathematik: Grundlagen

Bachelor en Formation Pédagogique (Bachelor Professionnel) @ University of Luxembourg

[Sep 2020 – Current]

Dissertation colloquium

Linz School of Education (PhD students) @ Johannes Kepler University Linz

[Sep 2019 – Current]

Pädagogisches Projekt - Didaktik der Mathematik

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2019 – Current]

In-depth educational research methods 1

Linz School of Education (PhD students) @ Johannes Kepler University Linz

[Jul 2018 – Current]

Introduction to educational research methods 1

Linz School of Education (PhD students) @ Johannes Kepler University Linz

[Sep 2011 – Current]

Didaktik der Mathematik 3

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Feb 2011 – Current]

Didaktik der Mathematik 2

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2010 – Current]

Didaktik der Mathematik 1

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2008 – Current]

Internships

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2018 – Jul 2023]

Back on top in Maths!

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2016 – Jul 2023]

Didaktik der Mathematik 4

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Feb 2021 – Jan 2022]

3D Modelling

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Feb 2021 – Jan 2022]

Interviews über MathCityMap Trails oder 3D (Iterative STEAM) Designs

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Feb 2018 – Jul 2021]

Didaktik der Mathematik 2

Bachelor en Sciences de l'Éducation (Formation en Cours d'Emploi) @ University of Luxembourg

[Sep 2017 – Jan 2021]

Didaktik der Mathematik 1

Bachelor en Sciences de l'Éducation (Formation en Cours d'Emploi) @ University of Luxembourg

[Feb 2013 – Jul 2019]

Lehr-Lernwerkstatt Projekt - Didaktik der Mathematik

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2009 – Current]

Erziehungswissenschaftliches Forschungsprojekt

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2013 – Jul 2016]

Dynamische Mathematik mit GeoGebra

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2013 – Jul 2014]

Aktiv-entdeckendes Lernen und produktives Üben im Mathematikunterricht

Faculty of Education (Master and PhD students) @ University of Cambridge

[Sep 2009 – Jul 2014]

Educational Research Methods

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2008 – Jul 2014]

Kinder auf dem Weg zu einer mathematisch-(natur)wissenschaftlichen Grundbildung

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Feb 2013 – Jul 2013]

Dynamische Mathematik mit GeoGebra: GeoGebra Benutzer

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Feb 2013 – Jul 2013]

Dynamische Mathematik mit GeoGebra: GeoGebra Experte

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2012 – Jul 2013]

Le portfolio comme outil de développement professionnel

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2008 – Jul 2012]

Reflecting own learning and development

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2009 – Jul 2010]

Research in Learning

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2008 – Jan 2009]

Fachwissenschaftliche Kenntnisse und die Organisation von Lernprozessen

Bachelor en Sciences de l'Éducation (Bachelor Professionnel) @ University of Luxembourg

[Sep 2008 – Jan 2009]

Analysing individual pathways of learning and development

Bachelor Professionnel en Sciences de l'Éducation @ University of Luxembourg

[Feb 2007 – Jul 2008]

Elementargeometrie: Umgang mit „konkreten“ Objekten in Ebene und Raum sowie mit computergestützten dynamischen Umgebungen

Bachelor Professionnel en Sciences de l'Éducation @ University of Luxembourg

[Sep 2006 – Jul 2008]

Fachwissenschaftliche Kenntnisse und die Organisation von Lernprozessen

Bachelor Professionnel en Sciences de l'Éducation @ University of Luxembourg

[Sep 2006 – Jul 2008]

Analysing individual pathways of learning and development

Bachelor Professionnel en Sciences de l'Éducation @ University of Luxembourg

[Sep 2006 – Jul 2008]

Entdeckendes Lernen, produktives Üben und natürliche Differenzierung

Certificat d'Etudes Pédagogiques (Option Enseignement Primaire) @ University of Luxembourg

[Sep 2004 – Jul 2008]

Erziehungswissenschaftliches Forschungsprojekt

Certificat d'Etudes Pédagogiques (Option Enseignement Primaire) @ University of Luxembourg / Institut Supérieur d'Études et de Recherches Pédagogiques

[Sep 2001 – Jul 2008]

Didaktik der Mathematik 3

Certificat d'Etudes Pédagogiques (Option Enseignement Primaire) @ University of Luxembourg / Institut Supérieur d'Études et de Recherches Pédagogiques

[Sep 2003 – Jul 2006]

Didaktik der Mathematik 2

Certificat d'Etudes Pédagogiques @ University of Luxembourg / Institut Supérieur d'Études et de Recherches Pédagogiques

[Sep 2003 – Jul 2005]

Didaktik der Mathematik 1

[21 Oct 2024]

Événement Multiplicateur STEAM-Connect: De la discipline vers STIAM (STEAM) à travers la programmation Python d'un micro-contrôleur

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/64599>

[3 Jun 2024]

Événement Multiplicateur STEAM-Connect: STIM (MINT) au cycle inférieur du LPEM

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/64598>

[21 Apr 2023 – 21 Apr 2023]

Quo Vadis LPEM & MINT

Arlon, Belgique

Link: <https://hdl.handle.net/10993/60500>

[10 Jan 2020]

Dynamische Mathematik mit GeoGebra – 3D-Grafikfenster

Junglinster, Luxembourg.

Link: <https://hdl.handle.net/10993/43944>

[8 Nov 2019]

Dynamische Mathematik mit GeoGebra – Evaluation

Junglinster, Luxembourg

Link: <https://hdl.handle.net/10993/43943>

[8 Mar 2017]

Dynamische Mathematik mit GeoGebra – 3D-Grafikfenster

Esch-sur-Alzette, Luxembourg

Link: <https://hdl.handle.net/10993/43945>

[15 Nov 2016]

Dynamische Mathematik mit GeoGebra – Grafikfenster und Tabellenkalkulation

Dudelange, Luxembourg

Link: <https://hdl.handle.net/10993/43946>

[29 Jun 2016]

Dynamische Mathematik mit GeoGebra – Algebra- und 3D-Grafikfenster

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/43956>

[27 May 2016]

Dynamische Mathematik mit GeoGebra – Algebra- und 3D-Grafikfenster

Diekirch, Luxembourg

Link: <https://hdl.handle.net/10993/43957>

[18 Apr 2016]

Dynamische Mathematik mit GeoGebra – Algebra- und 3D-Grafikfenster

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/43958>

[4 Feb 2016]

Intégrer l'outil informatique dans le cours de mathématiques (Geogebra/Excel)

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/43959>

[14 Jan 2014]

Dynamische Mathematik mit GeoGebra – Algebrafenster

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/43960>

[11 Nov 2013]

Dynamische Mathematik mit GeoGebra – Grafikfenster und Tabellenkalkulation

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/43961>

[7 Feb 2013]

Dynamische Mathematik mit GeoGebra

Esch-sur-Alzette, Luxembourg

Link: <https://hdl.handle.net/10993/46755>

[10 Jan 2012]

Dynamische Mathematik mit GeoGebra

Esch-sur-Alzette, Luxembourg

Link: <https://hdl.handle.net/10993/46756>

[21 Oct 2011]

Dynamische Mathematik mit GeoGebra

Redange, Luxembourg

Link: <https://hdl.handle.net/10993/46757>

[25 Jan 2011]

Dynamische Mathematik mit GeoGebra

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/46758>

[18 Jan 2011]

Dynamische Mathematik mit GeoGebra

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/46759>

[14 May 2009]

Dynamische Mathematik mit GeoGebra - Planung, Organisation und Realisierung von Unterrichtseinheiten

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/47211>

[17 Mar 2009]

Dynamische Mathematik mit GeoGebra - Planung, Organisation und Realisierung von Unterrichtseinheiten

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/47212>

[10 Mar 2009]

Dynamische Mathematik mit GeoGebra - Planung, Organisation und Realisierung von Unterrichtseinheiten

Luxembourg, Luxembourg

Link: <https://hdl.handle.net/10993/47213>

SUPERVISING, CO-SUPERVISING AND ADVISING

[Dec 2023 – Current]

Rusmir Hasic

Johannes Kepler University Linz, Austria

[Sep 2019 – Jun 2021]

Ben Haas

Johannes Kepler University Linz, Austria

[Nov 2012 – Oct 2020]

Carole Dording

University of Luxembourg, Luxembourg

[Sep 2015 – Mar 2019]

Ben Haas

University of Luxembourg, Luxembourg

TRAVAIL DE CANDIDATURE EXAMINER

[Jan 2005 – Jul 2006]

Patrick Schmitz

Ministère de l'Éducation Nationale de la Formation Professionnelle et des Sports, Luxembourg

NETWORKS AND MEMBERSHIPS

[2021 – Current] Leuven, Belgium

European Association for Practitioner Research on Improving Learning (EAPRIL)

[2020 – Current] Esch-sur-Alzette, Luxembourg

Luxembourg Educational Research Association (LuxERA)

[2006 – Current] Berlin, Germany

Gesellschaft für Didaktik der Mathematik (GDM)

[2005 – 2010] Linz, Austria

GeoGebra

DIGITAL SKILLS TEST RESULTS

	Information and data literacy	ADVANCED	Level 6 / 6
	Communication and collaboration	ADVANCED	Level 6 / 6
	Digital content creation	ADVANCED	Level 6 / 6
	Safety	ADVANCED	Level 6 / 6
	Problem solving	ADVANCED	Level 6 / 6

Results from a [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

SOFTWARE

[20 Oct 2011 – 21 Sep 2012]

GeoGebra 4.0

Hohenwarter, M., Borchers, M., Ancsin, G., Blossier, M., Denizet, C., Fekete, A., Konecny, Z., Kovacs, Z., **Kreis, Y.**, Sonner, F., Sturr, G., & Ulven, H.-P. (2011). *GeoGebra 4.0*. Saalfelden, Austria: International GeoGebra Institute.

Link: <https://hdl.handle.net/10993/46754>

[2 Jun 2009 – 3 Jun 2011]

GeoGebra 3.2

Hohenwarter, M., Borchers, M., & **Kreis, Y.** (2009). *GeoGebra 3.2*. Saalfelden, Austria: GeoGebra Inc.

Link: <https://hdl.handle.net/10993/46753>

[22 Mar 2008 – 15 Sep 2009]

GeoGebra 3.0

Hohenwarter, M., Borchers, M., & **Kreis, Y.** (2008). *GeoGebra 3.0*.

Link: <https://hdl.handle.net/10993/46752>

[18 May 2006 – 1 Jun 2006]

GeoGebra 2.7

Hohenwarter, M., & **Kreis, Y.** (2006). *GeoGebra 2.7*.

Link: <https://hdl.handle.net/10993/46751>