

CV



Name Hannes Tegelbeckers, PhD
Geburtsdatum 27.02.1986
Current Position Research Assistant

Profile

Research Database Saxony- Anhalt: <https://forschung-sachsen-anhalt.de/pl/tegelbeckers-97020>

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Key Research Interest

#digital competency #skillsforfuture #computationalthinking #AI in Education #AI literacy, #teaching technologies #OER

Occupational Timeline

- [14/01/2026] Publication of PhD: Elterliche Einflussfaktoren in der kindlichen Berufsorientierung mit dem Schwerpunkt MINT Fächer– Darstellungen von Zusammenhängen spezifischer, elterlicher Sozialisationsvariablen zur Verbesserung elterlicher Handlungsempfehlung (Translation: Parental influences on children's career orientation with a focus on STEM subjects – representations of correlations between specific parental socialisation variables to improve parental recommendations for action)
- [10/2024 – 01/2025] External lecturer at Otto von Guericke University (OVGU) on the subject of AI and Quantitative Methodology
- [10/2023 – 01/2025] Freelance Consultant for the GIZ GmbH on digitalization and physical computing in Education and Development projects
- [10/2020 – current] Research Associate in the International Cooperation Department of the Chair of Engineering Education and Technical Education at Otto von Guericke University Magdeburg (Head of International Projects)
- [01/2020 – 10/2020] Consultant to the University of Chicago, Faculty for Computational Science under Prof. Diana Franklin for the introduction of physical computing into the Scratch Encore curriculum
- [10/2017 – 09/2019] Research assistant at the Chair of Technical Education and its Didactics, BMBF projects: investMINT/ CoSiTo
- [07/2017- 06/2018] Freelance consultant and coach for the use of Raspberry Pi in primary and all-day schools

- [04/2015 –10/2017]* External lecturer at Otto von Guericke University (OVGU) on the subject of education systems, information and communication technology in education and development cooperation
- [01/2014 – 09/2017]* Research assistant with special tasks, Chair of Applied Didactics and School Theory, OVGU Magdeburg, study coordinator

Seminars

- Since 2025* AI in TVET Professional Development based on the UENSCO AI Teachers Competency Framework
- Since 2025* AI in TVET Foundations based on the UENSCO AI Teachers Competency Framework
- Since 2024* Quantitative Research Methodology with R – an AI supported approach to research projects
- Since 2021* The engineering education laboratory (focus on digitalization, simulation, programming)
- Since 2021* Processes, systems and organization of professional skilled work
- Since 2021* Didactic design of technology-based learning and assistance systems in the context of Industry 4.0 (Extended Reality applications)
- 2020* Fields of activity of the vocational trainer
- Since 2020* Didactics workshop (focus on digitization and programming)
- 2017/18* Information and communication technology in education-oriented development projects, OVGU
- 2016* Organization and Development Cooperation, Institute I: Education, Career and Media, BA Educational Sciences, OVGU
- 2015* Organization, Media and Development Cooperation (Teaching Language: English/ Portuguese)
Institute for Educational Sciences, BA Educational Sciences
- 2015* Apparatus gymnastics specialization, Institute of Sports Science, OVGU

Education

- [since 10/2018]* Dissertation project, topic: Recruiting young STEM talent: In search of a model for parental influencing factors in the (pre-)professional socialization of their children in the STEM field
- [10/2011- 03/2015]* Otto von Guericke University Magdeburg

MA Educational Science (Cultural Engineering)

[09/2005- 05/2008] University of Lincoln
BA (Hons) Media Communication and Public Relations
(Upper Second Class Honours)

[08/1996- 06/2004] Gutenberg Gymnasium in Erfurt, graduation: Abitur

Civil Service

[08/2004- 07/2005] Voluntary service abroad, working as a caregiver for people with disabilities due to epilepsy and secondary diseases of all ages at the St. Elizabeth Center, Much Hadham, UK

Honorary Post

[04/2016- 06/2016] Internet working group at Leipziger Straße elementary school, computer-oriented lessons with media didactic content for fourth graders

[07/2010 - today] Founding of the Li Ch'utam Guatemala Association, Chair,
To date: International Coordinator for the Li Ch'utam Guatemala/
Deutschland e.V. association.

[01/2012- today] Founding of the association “Li Ch'utam Deutschland e.V.”, 2nd Vice
Chairman (facebook/lichutam.com)

Publications and Organisational

2025

Hosting as UNESCO UNEVOC (18.-19-02.2025). AI and TVET: Challenges and Opportunities for Future Skills Development. Magdeburg, Germany: UNESCO UNEVOC Centre Magdeburg for Sustainable Development in TVET

Bünning, F., & Tegelbeckers, H. (2025). Perspective Chapter: Integrating Digital and AI Tools into a (Vocational and Secondary School) Teacher Training Curriculum. In *Advances in Digital and AI-Powered Education*. IntechOpen. <https://doi.org/10.5772/intechopen.1009367>

2024

Bünning, F., & Tegelbeckers, H. (2024). Technology – Education for a high-tech location Germany from a didactic perspective. In *Didactics of vocational and academic education and training* (pp. 661-674). (Originalsprache Deutsch)

Martsch, M., Hennige, T., & Tegelbeckers, H. (2024). Vocational education in Georgia: Conception and implementation of a PhD program. *International Vocational Education Research, Expanding Horizons*, 263-280.

Tegelbeckers, H. (2024). The use of ChatGPT at universities: Peculiarities, challenges, and opportunities. In *International Seminar: University and Education 5.0 - Modernization of higher education for a digital job market*, organized by the Faculty of Humanities (OVGU, Germany) and the Chair of Foreign Languages (ONEU, Ukraine).

Tegelbeckers, H. (2024). Artificial intelligence in doctoral education. *Tbilisi State University Summer School*, August 2024.

Bünning, F., & Tegelbeckers, H. (2024). The role of international organizations in the development of doctoral education. *Tbilisi State University Summer School*, August 2024.

Tegelbeckers, H. (2024). Using affordable hardware in teacher training and TVET: Use cases of single-board computers (Raspberry Pi and Arduino). Retrieved from <https://www.giz.de/akademie/en/html/60706.html>,
YouTube: <https://www.youtube.com/watch?v=nPfJ9LkweL8>.

2022

Martsch, M., Hennige, T., Steckel, M., & Tegelbeckers, H. (2022). Professionalization of Georgia's vocational education research and teacher training: A qualitative study. In *INTED Proceedings, INTED2022* (pp. 5339-5339).

Grzelidze, I., Sanadze, R., Idadze, S., Boehner, M., Tegelbeckers, H., & Hennige, T. (2022). Major challenges of vocational education in Georgia: Perspectives of vocational education providers. In *ICERI Proceedings, ICERI2022* (pp. 8177-8182).

2021

Bünning, F., & Tegelbeckers, H. (2021). Integration of digitalization into TVET teacher training. In *Virtual International Conference "Digitalization and TVET"*. Organized by GIZ TVET Academy, UNEVOC Centre Magdeburg, Asian Development Bank Education Group, Swiss Federal University for Vocational Education and Training, and the ILO. Available at https://www.giz.de/akademie/de/downloads/Keynote_Digitalisation%20in%20TVET%20Teacher%20Education%20Buenning.pdf

Tegelbeckers, H. (2021). TVET, digitalization, and digital competencies. *Lecture series on current issues in educational research*, University of Applied Sciences Innsbruck, Tyrol. (Originalsprache Deutsch)

2019

Brämer, S., Tegelbeckers, H., Vieback, L., Harms, O., Lonzig, A., Schmidt, J., & Bünning, F. (2019). Parental influence on daughters' career choice in STEM. In F. Bünning, M. Frenz, K. Jenewein, & L. Windelband (Eds.), *Transitions from the perspective of vocational education. Academization and permeability as a challenge for industrial-technical sciences* (pp. 85-100). Bielefeld: wbv. (Originalsprache Deutsch)

Tegelbeckers, H., Vieback, L., Schenk, S., Schmidt, J., Lonzig, A., Harms, O., Bünning, F., & Brämer, S. (2019). Family influence on STEM interests of daughters. In N. A. Dellal, S. Koch, & W. Stankowski (Eds.), *Theory and practice in education: science, experience, and knowledge* (pp. 67-91). Riga: LAP LAMBERT Academic Publishing.

Tegelbeckers, H., Schüßler, P., Vieback, L., & Brämer, S. (2019). Raspberry Pi in technology classes - A single-board computer as an alternative for STEM career orientation in schools?! In M. Binder & C. Wiesmüller (Eds.), *Learning in the brave new world of technology* (pp. 169-190). Karlsruhe: DGTB. (Originalsprache Deutsch)

Tegelbeckers, H., Schüßler, P., Vieback, L., & Brämer, S. (2019). Teaching technology in early education as a pathway to future mechanical engineers. In *Proceedings of the International Scientific Convention UCLV 2019, X International Scientific Conference on Mechanical Engineering, COMEC 2019*.

Vieback, L., Brämer, S., Tegelbeckers, H., & Schüßler, P. (2019). The role of parents as central facilitators in the first transition. In F. Gramlinger, C. Iller, A. Ostendorf, K. Schmid, & G. Tafner (Eds.), *Education = Vocational education?!*(pp. 381-394). Bielefeld: wbv. (Originalsprache Deutsch)

2017

Tegelbeckers, Hannes (2017): Programming is the new literacy, TEDx Magdeburg, URL: <https://www.youtube.com/watch?v=g5aTMPPB0rw&t=35s> [Stand: 11.08.2020]