RESEARCH TALK "IDENTIFYING PATHWAYS FROM TEACHER TO STUDENT MOTIVATION WITHOUT AND WITH AI-BASED METHODS"
Professor Dr Rebecca Lazarides

Abstract
Teacher motivation is crucial for high-quality teaching, but the transmission processes through which highly motivated teachers' interest, enthusiasm, goals or self-efficacy contribute to their students' academic outcomes are elusive. New AI-based methods such as computer vision and large language models enable researchers in educational psychology to detect such transmission processes, but such methodologies are often not yet validated. The research talk will present a heursitic framework on intrapersonal processes cognitive, emotional and behavioural explaining relations between teacher motivation and student outcomes. Additionally, the application of machine learning and large language models to the investigation of processes that connect teacher motivation to high-quality instruction is discussed.

Rebecca Lazarides is Professor for Empirical Research on Instruction and Schools at the University of Potsdam at University of Potsdam, Germany. She also is of the main PIs of the research center of excellence "Science of Intelligence" (https://www.scienceofintelligence.de/) at Technische Universität Berlin, funded by the German Research Foundation. She is particularly interested in the field of learning and instruction, motivational-affective processes, and in AI-based to detect such processes. Rebecca is consulting editor of Journal of Educational Psychology, on the International Editorial Advisory Board of Learning and Instruction, and is one of the Editor-in-Chiefs of the Journal of Educational Research (Zeitschrift für Erziehungswissenschaft: https://link.springer.com/journal/11618). She has co-edited books including *Motivation and Emotion in Learning and Teaching across Educational Contexts* (2023, with G. Hagenauer and J. Järvenoja), and special issues, including *Teacher Motivation: Implications for Instruction and Learning* (2021, with U. Schiefele).