



## About the project

The INTERXR project looks at the use of Extended Realities (XR) in various educational contexts from different perspectives/disciplines. We are looking at university, school and extracurricular learning processes. The final conference marks the end of the first phase of the project (01.10.24- 30.09.25), in which the following objectives were pursued and implemented:

1. Recruitment of potentially interested persons at the TU Braunschweig
2. Bundling preliminary work on the topic
3. Increase the visibility of research and teaching in this area

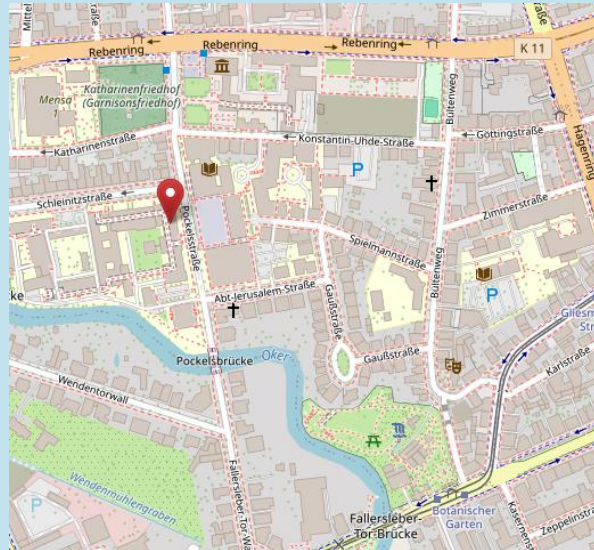
Further information about the project: [www.interxr.de](http://www.interxr.de)



## Location

25. & 26.09.2025

Technische Universität Braunschweig  
*Media Lab & Hörsaal SN 19.2*  
Pockelsstraße 4  
38106 Braunschweig



## Contact

Projekt leader: Prof. Dr. Alexander Büssing  
Mail: [interxr@tu-braunschweig.de](mailto:interxr@tu-braunschweig.de)

## Registration for the conference

To participate at the conference, please register via ConfTool:



**Final conference**  
**INTERXR**  
**25.-26.09.2025**

**Final conference of the project:**  
**Interdisciplinary Perspectives on**  
**XR in Education (INTERXR)**

# Program

The following is an overview of the planned program. Further updated information can be found on our homepage ([www.interxr.de](http://www.interxr.de))



## Thursday, 25.09.2025

### Opening – 10:30-11:00

*Prof. Dr. Alexander Büssing TU Braunschweig*  
*PD Dr. Dagmar Hilfert-Rüppell TU Braunschweig*  
*Welcome address from the Executive Board*

### Keynote – 11:00-12:00

XR for Learning – Overhyped or Promising? A Science Education Perspective  
*Jun-Prof. Dr. Salome Flegr TU Dresden*

### Lunch break – 12:00-13:00

### Lecture session I – 13:30-14:30

Perspectives on the Past: An Exploratory Study of Students' Appropriation of the Perspectives on the History of Anne Frank Offered by AR and VR  
*Prof. Dr. Marcel Mierwald TU Braunschweig*

Analyzing Classroom Lessons in a New Way with 360° Videos – Promoting Diagnostics and Reflection for Professional Vision?  
*PD Dr. Dagmar Hilfert-Rüppell TU Braunschweig*

Shifting from Content to Learner-adaptive Educational Applications in Mixed Reality  
*Prof. Dr. Oliver Bodensiek Universität Potsdam*

Extended Reality in Urban Design Education  
*Dr. Deepank Verma TU Braunschweig*

### Coffee break – 14:30-15:00

### Poster session – 15:00-15:45

### XR-Spotlights – 15:45-16:45

Insights into an Immersive Laboratory  
*Dr. Kirsten Santelmann & Markus Weber TU Darmstadt*  
*Ansgar Jahn Game-Engineer*

### Technology presentations – 16:45-18:00

*Various XR applications can be tried out in the Media Lab of TU Braunschweig.*

### Conference dinner on the river – from 18:30

*Tour on the river Oker*

To participate, please register via ConfTool:



## Friday, 26.09.2025

### Invited Symposium – 9:00-11:00

Moderation: Prof. Dr. Alexander Büssing

A Peek Behind Immersive Scenes: Using Attention Flow Analysis to Advance a Process-Oriented Cognitive Theory of Multimedia Learning in Immersive Virtual Reality  
*Dr. Christian Hartmann TU München*

Becoming a Tree – Promoting Environmental Sustainability Learning through Virtual Body Ownership of a Tree  
*Dr. Pia Spangenberg Universität Potsdam*

Fostering Social Competencies through Immersive VR? Pedagogical Affordances and Design Considerations  
*Dr. Miriam Mulders Universität Duisburg-Essen*

### Coffee break – 11:00-11:30

### Lecture session II – 11:30-13:00

Instructional Quality of Virtual Reality: Investigating the Cognitive Activation of Head-Mounted Displays  
*Prof. Dr. Alexander Büssing TU Braunschweig*

Virtual and Traditional Memory Palaces for Recall with ADHD  
*Anika Jewst TU Braunschweig*

Exploring a Better Version of Oneself? Learning Ethics through Serious Moral Games  
*Prof. Dr. Stefan Heuser TU Braunschweig*

Virtual Reality for Biology Education: Study on Learners' Interest, Cognitive Load and Learning Gain  
*Dorian Thomsen TU Braunschweig*

### Lunch break – 13:00-14:00

### Panel discussion – 14:00-15:30

How can XR, didactic concepts and evaluative models be linked interdisciplinary to provide sustainable and effective learning opportunities?

Moderation: *PD. Dr. Dagmar Hilfert-Rüppell*

Podium: *TU Braunschweig*

*Dr. Katja Knecht Institute for Sustainable Urbanism*

*Prof. Dr. Stefan Heuser Institut für Religionspädagogik*

*Prof. Dr. Marcus Magnor Institut für Computergrafik*

*Prof. Dr. Marcel Mierwald Institut für Geschichtswissenschaft & Leibniz-Institut für Bildungsmedien | Georg-Eckart-Institut (GEI)*

### Closing – 15:30-16:00

*Prof. Dr. Alexander Büssing TU Braunschweig*  
*PD Dr. Dagmar Hilfert-Rüppell TU Braunschweig*