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Upcoming Events

5 th November 2026 12:00 – 14:00 CET	TReND online lecture #7 with Dr. Andrew Wilson (Leeds Beckett University) (Zoom-Link: https://unibe-ch.zoom.us/j/6447676603)
19 th November 2026 13:00 - 15:00 CET	TReND online lecture #8 with Prof. Dr. Stephen Scott (Queen’s University) (Zoom-Link: https://unibe-ch.zoom.us/j/6447676603)
4 th February 2027 12:00 – 14:00 CET	TReND online lecture #9 (watch out for updates on our website and LinkedIN) (Zoom-Link: https://unibe-ch.zoom.us/j/6447676603)
13 th May 2027 12:00 – 14:00 CET	TReND online lecture #10 (watch out for updates on our website and LinkedIN) (Zoom-Link: https://unibe-ch.zoom.us/j/6447676603)
6 – 7 th July 2027	Concluding Conference at King’s College London

About TReND

We are a Marie Skłodowska-Curie Actions Doctoral Network (MSCA-DN).

Translational Research Network in Motor Disorder Rehabilitation: Advancing understanding of variability in motor control and learning, to enhance clinical practice

The theoretical understanding of human motor control and learning has a strong impact on the diagnosis and treatment of motor disorders, and vice versa. Recent progress has been made in the understanding of motor control and learning, particularly with respect to understanding the functional role of neurobehavioural variability that is inherent to sensorimotor control. However, this progress has not yet been transferred appropriately into clinical therapy approaches. The goal of TReND is thus, to create a translational research network in the rehabilitation of motor disorders. The network is highly interdisciplinary with doctoral and senior researchers from fundamental research areas (movement science, neuroscience, computer science), clinical practitioners (physical therapy, occupational therapy, rehabilitation sciences, etc.) and partners from related industries. The overall aim is to systematically translate recent theoretical and methodological advances in motor control and learning research into clinical practice to enhance clinical diagnosis and motor rehabilitation. More specifically, we will investigate the functional role of variability in the sensorimotor coordination dynamics at the behavioural and neurophysiological levels in motor and mental disorders such as stroke, Parkinson’s or Alzheimer’s disease.

Our research objectives

- To investigate how different disorders affect the sensorimotor systems’ capability to exploit functional variability for stable and adaptive motor control
- To investigate how novel therapy concepts can enhance the capacity to exploit functional variability and treat motor disorders across different patient populations
- To develop novel approaches to translate the knowledge gain from our fundamental research into clinical practice.

Our innovation objectives

- To develop and evaluate clinical tools for the assessment and diagnosis of functional movement variability
- To compose guidelines and recommendations for restoring functional variability

Connect with us



<https://www.uni-muenster.de/TReND-EU/>

<https://bsky.app/profile/msca-trend.bsky.social>

<https://www.linkedin.com/company/msca-dn-trend>

trend@uni-muenster.de

Network Coordinator:  **Universität
Münster**

Publications

💡 In her recent publication, our doctoral candidate **Léa Obrecht** and TReND colleagues report that, across 17 studies on paediatric motor rehabilitation for cerebral palsy and developmental coordination disorder, most teams applied established frameworks only partially, provided limited long-term evaluation, and involved clinicians and caregivers mainly as respondents. She argues that transparent, theory-informed KT, sustained evaluation, and high-level stakeholder engagement are essential to strengthen the pathway from discovery to impact.

Obrecht, L., van Abswoude, F., Klingels, K., & Steenbergen, B. (2026). Advancing knowledge translation processes in motor rehabilitation for children with cerebral palsy and developmental coordination disorder: insights from a scoping review. *BMC health services research*, 26(1), 725. <https://doi.org/10.1186/s12913-026-14488-0>

💡 Multisensory integration is one of five important mechanisms to deal with sensorimotor uncertainty, which is why the following publications from TReND supervisor **Stephan Zahno** and colleagues from the University of Bern provide an important basis for the work of our doctoral candidate **Constanze Dammeyer** on interpersonal coordination under uncertainty.

Truffer, M. & **Zahno, S.** (2026). Multisensory contributions in joint actions: A scoping review. *Perceptual and motor skills*. Advance online publication. <https://doi.org/10.1177/00315125261462380>

Truffer, M., Beck, D., Widmer, M., **Zahno, S.**, & **Hossner, E.-J.** (2026). Bayes goes tango: Twenty years of experience alter joint walking dynamics, but not the use of multisensory information. *PREPRINT (Version 1) available at Research Square*. <https://doi.org/10.21203/rs.3.rs-10650321/v1>

Latest News

A new chapter in Klagenfurt - Continued commitment to TReND

1st September 2026

Since September 1, 2026, Julian Rudisch, member of the TReND coordinator team, has started a new position as Assistant Professor at the Department of Movement Science at the University of Klagenfurt. In his new role as an Associated Partner, he will continue his contributions to the network and remain closely involved. He is particularly excited to keep supervising Sofía Avila Pérez (DC02). Additionally, a secondment for Sofía at the Alpen-Adria-Universität Klagenfurt is planned for spring 2027, which will further strengthen the collaboration. The TReND network wishes him all the best and looks forward to the continued collaboration.

🗨️ Find out more about [Sofia's project](#), which is supervised by Julian Rudisch.

TReND fellow Kai gains advanced neurophysiology insights during UK secondment

19th August 2026

Kai has recently completed his research secondment in the UK. From exploring machine learning for brain activity at King's College London to analyzing 3D movement data at Leeds Beckett University, it was a journey of immense academic and professional growth. A huge thank you to the mentors and peers who shared their expertise with Kai: Dr. Crina Grosan, Dr. Marco Davare, Dr. Verity McClelland, Dr. Andrew Wilson, and TReND fellow Ilaria Bufacchi.

📖 Read the full report [here](#).

Initial study on „How task-relevant variability affects motor learning in healthy young adults“ finished 🎉

5th August 2026

Aleksandra Kaner and her colleagues have successfully completed the first study of their research on task-relevant variability and motor learning. The study introduces a task based on the classical centre-out reaching task and provides a comprehensive view of the motor learning process by combining behavioural, kinematic and physiological data. The findings from Study 1 lay the empirical and conceptual foundation for the upcoming studies, for which preparations are already underway. Congratulations to Aleksandra and her colleagues on this important milestone!

🗨️ Read more about [her project](#).

Julia finishes her second secondment! 🎉

22nd July 2026

Our fellow Julia had the opportunity to visit the Stade Marseillais Université Club (S.M.U.C.), where she completed her second secondment in May.

📖 Read more about her experiences [here](#).

TReND lecture with Dr. Galit Yogev-Seligman

16th July 2026

In her lecture “Mobility as Cognitive Resource Allocation: Attention, Self-Awareness, and Affordance” Dr. Galit Yogev-Seligmann (University of Haifa, Israel) presented research examining how people allocate resources during walking and how unsafe prioritization may emerge under dual-task conditions. She also introduced an ecological perspective that incorporates pre-action perception and affordance perception into models of movement selection.

📖 For more details, please refer to the [abstract](#).

Research thrives when it is shared: Looking back on the postgraduate research conference at KCL

24th June 2026

A few weeks ago, our doctoral fellow Ilaria participated in the 7th Postgraduate Research Conference at the Florence Nightingale Faculty of Nursing, Midwifery & Palliative Care, King's College London. Congratulations to Ilaria on representing our doctoral network and engaging with the research community in this way.

 Read more [here](#).

If you would like to share information or announcements via the newsletter or have any further questions, please get in touch with us: trend@uni-muenster.de

With the newsletter, we would like to keep you posted about news and events concerning the TReND Project. If you do not wish to receive it any longer, please send us an e-mail or unsubscribe from the mailing list using this [link](#).

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