Dr. Matthias Kempe – Curriculum Vitae

Dr. Dipl.-Sporting. Matthias Kempe
Pohlgasse 28, 1120 Vienna
* 27.11.1983 in Frankenberg

Employment

15/02/2025-present	University of Vienna- Centre for Sport Science and University Sports
	Assistant Professor
01/03/2018-14/02/2025	University of Groningen - University Medical Center Groningen Center for Human Movement Sciences
	Assistant Professor
01/07/2016 -01/03/2018	German Sport University Cologne, Institute of Training and Computer Science in Sport
	Lecturer ▪ Undergraduate teaching (team sports) ▪ Preparing manuscripts for publications ▪ Attendance of national and international conferences ▪ Supervision of master and bachelor theses
16/05/2016 - 01/03/2018	German Sport University Cologne, Institute of Training and Computer Science in Sport
	Research Associate ▪ Project coordination "Development and evaluation of an instruction based motivation program to enhance performance in elite sport" ▪ Planning of research projects; data collection and analysis (several German national teams) ▪ Preparing manuscripts for publications ▪ Attendance of national and international conferences ▪ Supervision of master and bachelor theses and undergraduate teaching
12/10/2015 - present	German Sport University Cologne, Institute of Training and Computer Science in Sport
	Lecturer and study course coordinator M. A. Match Analysis ▪ Coordination of the Curriculum ▪ Supervision of master theses and graduate teaching

Education

05/2011-04/2016	**Doctoral degree in sport science (Dr. spowis., PhD)** „magna cum laude" Research field: Change of cognitive (memory) abilities over the life span German Sport University Cologne, Supervised by Prof. Dr. Daniel Memmert **Thesis Title**: „ The Shopping Paradigm- An Exploration of Everyday Memory"
05/2011 - 05/2014	German Sport University, Cologne, Germany **Scholarship holder in the graduate training programme** „Impaired mobility of older adults - causes and counteractive measures"

10/2003 - 04/2011 **Diploma Sport engineering** (Dipl. Sporting), Otto-von-Guerike University Magdeburg, Germany

Diploma thesis: „Development of an approach to classify movement pattern and evaluation of a therefore designed software tool in Team Handball“

EDITOR & ADHOC-REVIEWER

Editor International Journal of Sports Science & Coaching
Associate Editor Science and Medicine in Football

Guest Editor Frontiers in Sports and Active Living- Special Issue Using Artificial

Intelligence to Enhance Sport Performance

Reviewer:

- International Journal of Sport Science
- Journal of Human Movement Sciences
- Journal of Sport Science
- European Journal of Sport Science
- Cogent Social Sciences
- Gerontology
- Journal of Sports Analytics
- Psychology of Sport & Exercise
- Journal of Applied Social Psychology
- Science and Medicine in Football
- International Journal of Sports Science & Coaching
- Scientific Reports
- Machine Learning

PEER REVIEWED ARTICLES

van der Zwaard, S., Otter, R. T., **Kempe, M**., Knobbe, A., & Stoter, I. K. (2023). Capturing the Complex Relationship Between Internal and External Training Load: A Data-Driven Approach. *International Journal of Sports Physiology and Performance*, *18*(6), 634-642. Retrieved Nov 8, 2023, from https://doi.org/10.1123/ijspp.2022-0493

Goes, F.R., **Kempe, M**., Meerhoff, L.A., Lemmink, K., A., P., M. (2018) Not every pass can be an assist: a data-driven model to measure pass effectiveness in professional soccer matches. *Big Data*, DOI: 10.1089/big.2018.0067.

Kempe, M & Memmert, D. (2018): “Good, better, creative”: the influence of creativity on goal scoring in elite soccer, *Journal of Sports Sciences*, 36(21):2419-2423. DOI:10.1080/02640414.2018.1459153

Hecksteden, A., **Kempe, M**., & Berger, J. (2025). Perspectives on data analytics for gaining a competitive advantage in football: harnessing data for decision support. *Science and Medicine in Football*, 1–9. https://doi.org/10.1080/24733938.2025.2517056

Kempe, M., Grunz, A., Memmert, D. (2014). Detecting tactical patterns in basketball: Comparison of merge self-organising maps and dynamic controlled neural networks, *European Journal of Sport Science*

Anzer, G., Arnsmeyer, K., Bauer, P., Bekkers, J., Brefeld, U., Davis, J., Evans, N., **Kempe, M.,** Robertson, S.J., Smith, J.W., & Haaren, J.V. (2025). Common Data Format (CDF): A Standardized Format for Match-Data in Football (Soccer). ArXiv, abs/2505.15820.