



### Dr. Fabian Möller

Email: [fmoeller@mit.edu](mailto:fmoeller@mit.edu) | ORCID: 0000-0001-5664-8111 | Location: Cambridge, MA, USA

---

Fabian Möller is a **postdoctoral associate** at the Massachusetts Institute of Technology, School of Engineering, Aerospace Physiology Laboratory, developing and testing engineering countermeasures for aviation and aerospace. After earning his bachelor's and master's degrees from the German Sport University Cologne and the University of Cologne in 2019, he was **funded by the German Aerospace Center (DLR)** to work as a Project Scientist in the Department of Exercise Physiology at the German Sport University Cologne. Within an international cooperation of DLR, NASA, and Roskosmos, he worked on **optimizing countermeasure exercise training** in simulated spaceflight and various microgravity analogs. In his doctoral work, he conducted laboratory and field studies on **human physical and cognitive performance in extreme environments**, focusing on the underwater environment and earning him the **Best Paper Award** of the German Society for Diving and Hyperbaric Medicine in 2021. He completed his **Ph.D. with honors** in 2022. Paralleling his doctoral work, he supervised 14 theses, gathered more than five years of academic teaching experience, and was awarded his university's **1<sup>st</sup> Place Teaching Award** in 2023. He is a **Reviewing Board Member** of the European College of Sports Science and received a **Young Investigator Award** for his oral presentation at the 2023 conference in Paris. Outside of academia, he works as an honorary instructor trainer for SCUBA diving, supports the underwater Extra-Vehicular Activity Training of European Astronauts at the **European Astronaut Center (EAC)**, and acts as Committee Chair of the **Postdoctoral Association at MIT**. He published over **30 contributions** (25 as the first author) in peer-reviewed scientific journals and at conferences, frequently gives international lectures, and reviews for international journals.

---

#### Professional Positions

##### **Postdoctoral Associate**

Massachusetts Institute of Technology (MIT), Department of Aeronautics and Astronautics

Nov 2023 – Present

##### **Postdoctoral Associate**

University of Oregon, Cardiopulmonary & Respiratory Physiology Laboratory

May 2023 – Sept 2023

**Postdoctoral Lecturer**

Feb 2023 – Nov 2023

German Sport University Cologne, Institute of Professional Sport Education

**Research Associate**

Apr 2019 – Jan 2023

German Sport University Cologne, Department of Exercise Physiology

---

## Education

**Ph.D. in Sport Science**

2019 – 2022

German Sport University Cologne, Department of Exercise Physiology

**Master of Education**

2016 – 2018

German Sport University Cologne &amp; University of Cologne

**Bachelor of Arts**

2012 – 2016

German Sport University Cologne & University of Cologne

---

## Selected peer-reviewed publications

**Möller, F.**, Fan, J-L., Futral, E. J., et al. "Cardiopulmonary hemodynamics and PFO prevalence in Tibetans and Han Chinese during rest and exercise." *Journal of Physiology*, 2024.

**Möller, F.**, Jacobi, E., Hoffmann, U., Vogt, T. "Physiological and cognitive responses to hyperoxic exercise in full water submersion." *European Journal of Sport Science*, 2023.

Koschate, J., **Möller, F.**, et al. "Effects of aerobic exercise in confinement on cardiorespiratory kinetics and cognitive functions." *Acta Astronautica*, 2022.

**Möller, F.**, Hoffmann, U., Vogt, T., & Steinberg, F. Exercise-related effects on executive functions during a simulated underwater extravehicular activity. *Human Factors*, 2021