
PROFILE

Sport scientist and performance analyst with hands-on experience across professional football, sports medicine, and performance technology, combining rigorous data skills with a genuine passion for high-performance sport. Experienced in diverse athlete-facing environments, from planning training programs for Bundesliga players to managing multi-site research projects, and known for building trusted relationships across athletes, coaches, and technical teams. Motivated by the belief that meaningful human connection and analytical rigour are equally essential in supporting athletes and organisations to perform at their best.

WORK EXPERIENCE

Junior Test & Data Analysis Assistant

June 2025 – Present

Microgate Srl · Bolzano, Italy

- Validate jump-analysis algorithms against gold-standard OptoJump reference systems, ensuring measurement accuracy for elite athletic performance tools used by professional sports organizations worldwide
- Collect and process athlete performance data using professional sport-science instrumentation (GykoPro IMU, Witty Gate, Witty SEM, OptoGait), supporting product development with structured analysis
- Cultivate client relationships through product demonstrations, translating complex technical performance data into clear, accessible insights for coaches, athletes, and commercial partners
- Contribute to R&D validation workflows, systematically documenting test protocols and findings to scientific and commercial standards

Athletic & Rehabilitation Coach, Intern

June – Sept 2024

SC Paderborn 07, 2. Bundesliga · Paderborn, Germany

- Planned and delivered strength and athletic training sessions for professional Bundesliga players, adapting programs based on individual fitness diagnostics and match-load data
- Analyzed GPS and movement data via Catapult Sports system to track athlete development, identify training load trends, and support coaching staff decisions
- Conducted fitness diagnostics and monitored athlete readiness across a professional squad throughout a full pre-season preparation period
- Established trusted working relationships with professional players and coaching staff, contributing to athlete motivation and wellbeing alongside physical preparation

Research & Clinical Intern

Oct 2023 – Mar 2024

OSIOS Klinik & Universitätsklinikum Bonn · Bonn, Germany

- Led a multi-site clinical research project on prehabilitation with Blood Flow Restriction Training, coordinating data collection across two institutions and managing project timelines independently
- Collected and analyzed biomechanical performance data (EMG, Force Plate) to evaluate intervention outcomes, contributing to evidence-based athletic rehabilitation protocols
- Developed structured documentation and reporting processes to ensure research integrity and clear communication of findings to clinical and academic stakeholders

Founding Team Member, Operations & Sales

June – Dec 2020

PopUp Camps GmbH · Hamburg, Germany

- Joined as an early employee at a newly founded outdoor experience startup, managing end-to-end customer communications, bookings, and operational logistics for multi-day programs
- Drove process optimizations that improved booking workflows and customer satisfaction under fast-moving startup constraints
- Maintained ongoing relationships with a community of repeat customers through attentive, timely communication and high service standards

EDUCATION

MSc Sport Science (in progress)

Oct 2024 – Present

University of Innsbruck · Austria

Thesis: "Validation of a Post-Processing Algorithm for Jump Detection and Jump Parameter Estimation Based on Gyko Pro IMU Data: A Comparison with the OptoJump Optoelectronic System"

Exchange Semester: Sport Management & Performance

Jan – Aug 2023

Norwegian School of Sport Sciences (NIH) · Oslo · ERASMUS · 25 ECTS

Sport Marketing · Performance Management · Performance Enhancement & Anti-Doping in Sport

BSc Sport and Performance Science · Grade: 1.5 (Excellent)

2021 – 2024

German Sport University Cologne (DSHS Köln) · Germany

Thesis: Effects of Hypoxic Training on Endurance Performance Parameters in Women: A Systematic Review

Economics and Social Sciences (PPE)

Sept 2019 – Jan 2021

Free University of Bolzano · Italy

3 semesters, transitioned to Sport Science at DSHS Köln

Abitur (A-Level Equivalent)

2018

Helene-Lange-Gymnasium Hamburg · Germany · Grade: 2.0 · Bilingual (DE / EN)

SELECTED PROJECTS

Jump Performance Analysis System

Microgate · 2024 – Present

Contributed to developing a pipeline to detect and analyze athletic jump performance from IMU sensor data, achieving accuracy comparable to OptoJump, the industry-standard timing system in elite sport. Worked with Random Forest models trained on 2,000+ jump samples for AI-driven timing correction; the resulting software runs natively on iOS and macOS and is used in product validation at Microgate.

Inertia Showcase: iOS Athletic Performance Analyzer

Microgate & Lite · 2025

Contributed to an iOS application and standalone web tool for real-time flywheel training analysis using the Lite Inertia device, streaming live sensor data at 400 Hz via Bluetooth. The C++ analysis engine computes key athletic metrics (peak velocity, power, force, concentric/eccentric phases) for use by strength coaches and sports scientists. Developed in collaboration with Microgate and Lite.

SKILLS & TOOLS

DATA & ANALYSIS

Python (pandas, NumPy, scikit-learn), structured data pipelines, statistical validation

AI & MACHINE LEARNING

Hands-on exposure to machine learning methods through applied sport science projects, including working with Random Forest models and scikit-learn

SPORT TECHNOLOGY

Catapult GPS, OptoJump, OptoGait, GykoPro IMU, Witty Gate/SEM, Force Plate, EMG

APPLIED TECHNICAL DEVELOPMENT

Working familiarity with Python for data analysis and scripting; exposure to Swift, C++ and iOS frameworks through sport science projects; basic Git for version control

PEOPLE & COMMUNICATION

Athlete-facing communication, cross-functional team collaboration, stakeholder presentations, client relationship management, multilingual (German native, English C1/C2)

LANGUAGES

German: Native English: C1 / C2 (Fluent)

ATHLETICS & SPORT

Road Cycling: Ötztaler Radmarathon (227 km / 5,500 m elevation), Dreiländergiro, La Leggendaria Charly Gaul

Alpine Skiing: FIS competition level, slalom & giant slalom (2016 – 2021), certified ski instructor

Further: Tennis (recreational), Football (club level)