



# Mattia Zanon, PhD

Biomedical Engineer & Data Scientist

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## SUMMARY

Biomedical engineer and data scientist with 10+ years experience in digital health for cardiovascular, neurological, and metabolic conditions. Skilled in signal processing, machine learning, and team leadership. Strong scientific communication and strategic thinking.

## EXPERIENCE

Digital biomarker data scientist / Roche, Basel / 2025–Present

- Develop digital twins and other algorithms for products leveraging the continuous glucose monitoring sensors developed by Roche

Principal Scientist / Roche, Basel / 2022–2024

- Led digital biomarker data analysis team for developing and maturing a digital health tool for measuring symptoms of multiple sclerosis (Floodlight)
- Managed 15+ team members and coordinated across Roche units
- SME for FDA DeNovo submission and CDISC FAIR data model

Senior Scientist / Roche, Basel / 2019–2022

- Product owner for Floodlight, contribute expertise to obtain MDR certification
- Published research, developed HRV metrics for measuring stress and anxiety in clinical trials for Autism Spectrum Disorder
- Built semi-automated FAIRification system adopted org-wide




Sr. Data Scientist / Biovotion / Biofourmis / 2016–2019

- Wearable algorithms under regulatory constraints for vital signs monitoring
- Multi-sensor behavior-health framework

## EDUCATION

- Ph.D. Information Technology – University of Padova (2010–2013)
- M.Sc. Bioengineering, cum laude – University of Padova (2006–2009)
- B.Sc. Biomedical Engineering – University of Padova (2003–2006)

## STRENGTHS

-  Strategic Thinker – Converts science into clinical impact
-  Mentor – Builds, develops and empowers interdisciplinary teams
-  Strong Individual contributor: Developed and deployed medical-grade signal processing and ML products

## TOOLS & TECH

Python, C, Matlab, SQL, Git, CDISC, JIRA, Agile

## LANGUAGES

Italian	<div><div></div></div>
English	<div><div></div></div>
German	<div><div></div></div>

## HIGHLIGHTS

- 14 peer-reviewed publications on scientific journals (6 first-author)
- 10 co-invented patents

## PERSONAL

Triathlete & skier, espresso aficionado, blood donor.