



# Domenico Minici

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## Digital Endpoint Data Scientist | Digital & Clinical Data Analytics

### Core Competencies

<b>Advanced Statistics and Data Science</b> AI Automation and Machine Learning	<b>Advanced Coding and Data Engineering</b> Python, R, C, Java, SQL, AWS, Git
<b>Real-World Data Real-World Evidence</b>	<b>Digital Endpoint Validation</b> Verification, Analytical and Clinical Validation + Usability
<b>Strategy &amp; Operations</b> Project Management, Evidence Generation Planning, and Stakeholder Alignment	<b>Clinical Data Management</b> GxP, CDISC SDTM & ADaM

### Education

#### Ph.D. in Smart Computing Wearable Health Technologies

University of Florence | 2019 – 2023

#### M.Sc. Computer Engineering

University of Pisa | 2016 – 2019

#### B.Sc. Computer & Automatic Engineering

Sapienza University of Rome | 2012 – 2016

### Selected Publications

- Minici D. *et al.* Automated ecological frailty assessment via wrist-worn device. **Pervasive & Mobile Computing**, 2023.
- Minici D. *et al.* Frailty status assessment with wearables. **IEEE Journal of Biomedical and Health Informatics**, 2021.

### Professional Experience

#### Digital Endpoint Data Scientist | Apr 2023 – Present

Novartis Pharma AG – Basel, Switzerland

- Lead digital endpoint analytics strategy in Clinical Development, defining analysis and validation plans for DHT-derived measures.
- Deploy reusable validation frameworks and standardized analysis toolkits for reproducibility and governance across clinical trials.
- Drive cross-functional stakeholder alignment with clinical, statistics, operations, and vendor teams to integrate DHTs into trial designs.
- Evaluate DHT readiness including device feasibility, participant burden, data quality, and analytics-readiness assessments.
- Apply endpoint rigor across multiple therapeutic areas (neuro, immunology, oncology) ensuring fit-for-purpose, decision-grade measures.

#### Head of International Sales & Data Innovation | Jan 2022 – Mar 2023

Prometeo BV – Rotterdam, The Netherlands

- Built Django & PostgreSQL data-lake powering ML-based price prediction, reducing quoting time by 70 %.
- Led cross-border data projects with EU waste-to-energy partners and negotiated €3M+ contracts.

#### Digital Biomarker Data Science Intern | Aug 2021 – Nov 2021

Novartis Pharma AG – Basel, Switzerland

- Assessed critical parameters of motor-cognitive interference in dual-task paradigms for Alzheimer's research using multi-sensor network.
- Evaluated physical activity metrics from wearables as predictors of treatment efficacy across clinical conditions.

#### Ph.D. Researcher - Digital Health Technologies | Nov 2019 – Apr 2023

University of Pisa – Pisa, Italy

- Built end-to-end ML-based frailty assessment pipeline using wrist-worn device, including sensor placement optimization and gait-derived feature extraction.
- Applied Continuous Wavelet Transform (CWT) for time-frequency representations and Transfer Learning: from Human Activity Recognition to frailty level assessment.
- Led Computer Engineering & Medical School students, and presented findings to clinical experts, integrating geriatrician feedback into algorithm refinement.