

Research Software Engineer

**MARCO MARRA**

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## EXPERIENCE

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### **Radboudumc · Diagnostic Image Analysis Group**

**Research Software Engineer** | Jan 2021 - Dec 2021

Software development in lung cancer screening research and backend development for Django-based web app Grand-Challenge.org · Worked on a product team using agile practices and CI/CD systems · Picked up complex (CIRRUS on MeVisLab) web applications quickly · Picked up Docker and worked on app containerization, refactoring, testing, feature development, and code review

### **University of Twente · Biomechanical Engineering**

**Assistant Professor** | Nov 2017 - Dec 2020

Setting up a DevOps culture within the research team, including CI/CD and version control tools, for code development aimed for reuse by fellow researchers and in student projects

### **Radboudumc · Orthopaedic Research Lab**

**Researcher** | Jan 2014 - Oct 2017

Worked in a multicultural research project on development and validation of computational models of the implanted knee in OOP language and Python · Identified and evaluated solutions (including machine-learning and external C++ computational libraries) to improve model efficiency · Presented award-winning papers at international scientific journals and symposia

### **AnyBody Research Group · Aalborg University**

**Internship** | Oct 2013 - Dec 2013

Became acquainted with OOP language for musculoskeletal modeling AnyScript · Familiarized with enterprise-level CI/CD pipelines, version-controlled code and teamwork

## EDUCATION

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**Thesis title: Personalized musculoskeletal modeling of the knee joint.**

**PhD in Medical Sciences** | Oct 2013 - Apr 2019

**Thesis title: Study of dens fracture in the elderly and the role of osteoporosis with a finite element model.**

**Master of Science in Biomedical Engineering** | Sep 2011 - Jul 2013

## About me

An intuitive, solution-oriented biomedical engineer with a passion for computers and technology. There are no impossible challenges, only complex problems to solve. That's what I stand for. I get energy from always learning new things and developing myself a step further.