

Giulio Sacchetti

Master graduate in Biomedical Engineering. Proficient with segmentation software such as Amira, Materialise Mimics, Disior Bonellogic, as well as Matlab and Geomagic Control.

LANGUAGES

Italian - Native
English - Advanced (C1-IELTS)
French - Upper Intermediate (B2-DELF)
German - Intermediate (B1-Goethe Institut)

OTHER INTERESTS

Literature, cinema, cycling, traveling, wood carving, scuba diving (Open Water certification).

SKILLS

- **3D Medical Imaging:** Bonellogic Ortho Foot and Ankle (Disior); Materialise Mimics; Amira
- **CAD modelling:** Geomagic Control, Solidworks
- **Biomechanical Simulation:** Abaqus, Ansys Fluent
- Matlab
- C/C++
- Meshlab
- Office suite

WORK EXPERIENCE

- **Research scholarship in the Movement Analysis and Functional Evaluation Laboratory of Istituto Ortopedico Rizzoli of Bologna (07/2022-current):**
Anatomical 3D modelling and biomechanical analysis in diabetic and flat foot patients.
Main goals: prevention of ulcer formation in diabetic patients, comparison of bone alignments pre and post surgery in flat foot patients, prevention of vascular disease for elder population.
- **Thesis Project in the Movement Analysis and Functional Evaluation Laboratory Istituto Ortopedico Rizzoli of Bologna (09/2021 - 03/2022):**
Comparison between two segmentation software and correlation analysis of anatomical deformities with baropodometric measures

EDUCATION

- **Master's Degree in Biomedical Engineering at Politecnico di Milano (2019-2022)**
- **Bachelor's Degree in Biomedical Engineering at La Sapienza di Roma (2015-2019)**

CONGRESSES

- **Poster presentation at the International Foot and Ankle Biomechanics Society in Bordeaux (April 2023):**
"Age-Related Three-Dimensional Foot Measurements Using Cone-Beam CT scans In Weight-Bearing"
- **Poster presentation at the Orthopaedic Research Society in Dallas (February 2023):**
"Weight-bearing CT for 3D Alignment of Foot Bones Before And After Surgical Correction Of Flatfoot"
- **Oral presentation at PROMISING Congress in Milan (October 2022):**
"Instrumental Diagnostic Systems for Geriatric Foot Monitoring"
- **Oral presentation at the 9th World Congress of Biomechanics in Taipei (July 2022):**
"Correlates in left and right diabetic feet between measurements of 3D bone pose in weight-bearing and dynamic plantar pressure"