

Raffaele Zinno

Date of birth: 21 Jun 1994 | **Nationality:** Italian | **Gender:** Male | **Phone number:** (+39) 3343307210 (Mobile) |

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● WORK EXPERIENCE

26 FEB 2024 – CURRENT Bologna, Italy

ADJUNCT PROFESSOR UNIVERSITY OF BOLOGNA

Adjunct professor of the course "Human Motion Theory and Methodology " of the First cycle degree programme (L) in Exercise and Sport Sciences at University of Bologna, Campus of Rimini

1 JAN 2023 – CURRENT Bologna, Italy

RESEARCH FELLOW UNIVERSITY OF BOLOGNA - DEPARTMENT FOR LIFE QUALITY STUDIES

Project title: "Designing an exercise protocol for subjects with osseointegrated prostheses"

Research field: Movements assessment; Orthopedic biomechanics; Chronic diseases prevention and post-rehabilitation; Physical activity promotion; Wearable technology; Prosthetic for limb amputations.

His activities focus on research project development and scientific production through publication in international journals. He is responsible for patient/people recruitment and assessment using wearable sensors, force platforms, electromyographic sensors, static and dynamic radiostereometric analysis, and data collection and analysis.

1 OCT 2021 – CURRENT Bologna, Italy

LECTURER OF PHYSICAL ACTIVITY FOR ELDERLY AGE UNIVERSITY OF BOLOGNA - DEPARTMENT FOR LIFE QUALITY STUDIES

Lecturer of the course "Physical Activity for Elderly Age" of the First cycle degree programme in Exercise and Sport Sciences

1 MAR 2023 – 26 JUN 2023 Groningen, Netherlands

RESEARCH FELLOW UNIVERSITAIR MEDISCH CENTRUM GRONINGEN - UMCG

30 JUN 2021 – 31 DEC 2022 Bologna, Italy

RESEARCH FELLOW UNIVERSITY OF BOLOGNA - DEPARTMENT FOR LIFE QUALITY STUDIES

Project title: "Treatment of osseointegrated patient with limb amputation: pre- and postoperative physical activity"

Research field: Movements assessment; Orthopedic biomechanics; Chronic diseases prevention and post-rehabilitation; Physical activity promotion; Wearable technology; Prosthetic for limb amputations.

His activities focus on research project development and scientific production through publication in international journals. He is responsible for patient/people recruitment and assessment using wearable sensors, force platforms, electromyographic sensors, static and dynamic radiostereometric analysis, and data collection and analysis.

30 JUN 2021 Bologna, Italy

EXPERT IN THE FIELD OF "HUMAN KINESIOLOGY" UNIVERSITY OF BOLOGNA

30 JUN 2021 Bologna, Italy

EXPERT IN THE FIELD OF "KINESIOLOGIC EVALUATION AND ASSESSMENT" UNIVERSITY OF BOLOGNA

30 JUN 2021 Bologna, Italy

EXPERT IN THE FIELD OF "THEORY AND METHODOLOGY OF HUAN MOVEMENT" UNIVERSITY OF BOLOGNA

31 DEC 2019 – 29 JUN 2021 Bologna, Italy

RESEARCH FELLOW UNIVERSITY OF BOLOGNA - DEPARTMENT OF BIOMEDICAL AND NEUROMOTOR SCIENCES

Project title: "Osseointegrated treatment for limb amputations: stability assessment using the RSA technique"

Research field: Movements assessment; Orthopedic biomechanics; Chronic diseases prevention and post-rehabilitation; Physical activity promotion; Wearable technology; Prosthetic for limb amputations.

His activities focus on research project development and scientific production through publication in international journals. He is responsible for patient/people recruitment and assessment using wearable sensors, force platforms, electromyographic sensors, static and dynamic radiostereometric analysis, and data collection and analysis.

Business or Sector Professional, scientific and technical activities |

Department Department of Biomedical and Neuromotor Sciences | **Address** Via Massarenti, 9, 40138, Bologna, Italy

1 JAN 2017 – 1 JAN 2020 Bologna, Italy

PERSONAL TRAINER MONDO FITNESS SSD GYM

His activities focus on designing, implement and evaluate exercise or physical activity programs for one or more individuals by collecting and analyzing their information. He is responsible for actively encouraging potential clients to participate in and adhere to regular programs, employing appropriate motivational strategies. He also teaches functional training to a group class.

17 DEC 2018 – 16 DEC 2019 Bologna, Italy

IRCSS RIZZOLI ORTHOPAEDIC INSTITUTE RESEARCHER

His activities focus on the kinematical analysis of patients with total knee prostheses using the dynamic Roentgen Stereophotogrammetric Analysis (RSA) technique. He published some work in international scientific journals and participated in several international and national conferences on this topic.

Business or Sector Professional, scientific and technical activities | **Department** IRCSS Rizzoli Orthopaedic Institute |

Address Via di barbiano 1/10, 40136, Bologna, Italy

31 DEC 2015 – 23 JUL 2018 Bologna, Italy

UNIVERSITY TUTOR UNIVERSITY OF BOLOGNA

His activities focus on: organizing and managing the reception; drafting reports, letters, and internal and external communications to the structure; organize information archives (privacy, procedures, internal documents); supporting for teaching and interaction between students and professors; managing the information point for students; managing meeting groups for thematic sessions organization; distance learning support.

31 MAY 2017 – 30 JUL 2017 Bologna, Italy

RE-EDUCATIONAL TRAINER ISOKINETIC

His activities focus on re-educational training for people with musculoskeletal injuries. He programmed training for people with total hip, knee, ankle arthroplasty, cruciate ligament injury, shoulder injuries, etc. He was responsible for physical activity performance in pool water, gym, and on the field.

28 FEB 2017 – 29 JUN 2017 Bologna, Italy

VIRGIN INSTRUCTOR - PERSONAL TRAINER VIRGIN ACTIVE GYM

His activities focus on designing, implement and evaluate exercise or physical activity programs for one or more individuals by collecting and analyzing their information. He is responsible for actively encouraging potential clients to participate in and adhere to regular exercise programs, employing appropriate motivational strategies.

31 AUG 2015 – 30 DEC 2016 Sant'Arcangelo di Romagna, Italy

RE-EDUCATIONAL TRAINER FISIOKINETICA

His activities focus on re-educational training for people with musculoskeletal injuries. He programmed training for people with total hip, knee, ankle arthroplasty, cruciate ligament injury, shoulder injuries, etc. He was responsible for physical activity performance in pool water, gym, and on the field.

31 MAY 2016 – 30 JUL 2016 Ravenna, Italy

MULTISPORT TRAINER EDUCAMP - CONI

His activities focus on organizing, managing, and supervising sports and recreational activities of groups of children. Moreover, he has the responsibility to coordinate the activities with the others trainer.

30 NOV 2013 – 30 MAY 2016 Rimini, Italy

FOOTBALL ATHLETIC TRAINER RIMINI UNITED MALATESTA

His activities focus on designing, implement and evaluate exercise programs for football players by collecting and analyzing their information. He is responsible for managing training sessions of the season. He is constantly collaborating with the coach and other athletic trainers.

31 AUG 2015 – 30 DEC 2015 Cesena, Italy

RUGBY ATHLETIC TRAINER CESENA RUGBY

His activities focus on designing, implement and evaluate exercise programs for rugby players by collecting and analyzing their information. He is responsible for managing training sessions of the season. He is constantly collaborating with the coach and other athletic trainers.

28 FEB 2015 – 30 JUL 2015 Ravenna, Italy

RUGBY ATHLETIC TRAINER ROMAGNA R.F.C. RUGBY

His activities focus on designing, implement and evaluate exercise programs for rugby players by collecting and analyzing their information. He is responsible for managing training sessions of the season. He is constantly collaborating with the coach and other athletic trainers.

● **EDUCATION AND TRAINING**

30 SEP 2020 – 15 MAR 2024 Bologna, Italy

PH.D. IN SCIENCE AND CULTURE OF WELL-BEING AND LIFESTYLE University of Bologna

Ph.D. project: Physical activity as a tool to improve quality of life in people with total hip and knee arthroplasty.

Research field: Movements assessment; Orthopedic biomechanics; Chronic diseases prevention and post-rehabilitation; Physical activity promotion; Wearable technology; Prosthetic for limb amputations.

His activities focus on research project development and scientific production through publication in international journals. He is responsible for patient/people recruitment and assessment using wearable sensors, force platforms, electromyographic sensors, static and dynamic radiostereometric analysis, and data collection and analysis.

2 MAY 2021 – 4 JUL 2021

CORSO FAD "L'ATTIVITÀ FISICA COME OPZIONE TERAPEUTICA PER IL TRAPIANTO: PRESCRIZIONE E PIANIFICAZIONE DELLA TERAPIA" Istituto Superiore di Sanità

30 SEP 2016 – 22 JUL 2018 Bologna, Italy

MASTER'S DEGREE IN SCIENCES AND TECHNIQUES OF PREVENTIVE AND ADAPTED PHYSICAL ACTIVITIES University of Bologna

Final grade 110/110 cum laude |

Thesis Study of "posterior-stabilized" total knee prosthesis kinematics during a "lunge" using dynamic RSA

31 AUG 2017 – 31 JAN 2018 Spain

ERASMUS University of Seville

Field of study Physical activities and sport sciences

2014 – 2016 Cesena, Italy

FUNCTIONAL TRAINER Functional Training School

1° Level of Functional training

2° Level of Functional training

Final grade 110/110 cum laude |

Thesis Nutrition and supplementation to improve performance and physical well-being in football players

2014 – 2015 Ravenna, Italy

PERSONAL TRAINER Fitness Italian Federation

Personal trainer

Postural one to one

Pattern reability training

● **PUBLICATIONS**

2021

[Causes of stiffness after total knee arthroplasty: a systematic review](#)

Authors: Stefano Zaffagnini, Stefano Di Paolo, Amit Meena, Domenico Alesi, Raffaele Zinno, Giuseppe Barone, Nicola Pizza, Laura Bragonzoni

International Orthopaedics

2021

[Effects of COVID-19 Lockdown on Adherence to Individual Home-or Gym-Based Exercise Training among Women with Postmenopausal Osteoporosis](#)

Authors: Erika Pinelli, Giuseppe Barone, Sofia Marini, Francesco Benvenuti, Marie H Murphy, Mikko Julin, Wolfgang Kemmler, Simon Von Stengel, Stefano Di Paolo, Laura Dallolio, Pasqualino Maietta Latessa, Raffaele Zinno, Laura Bragonzoni

International Journal of Environmental Research and Public Health

2021

[Over-constrained kinematic of medial compartment leads to lower clinical outcomes after total knee arthroplasty](#)

Authors: Nicola Pizza, Stefano di Paolo, Raffaele Zinno, Giulio Maria Marcheggiani Muccioli, Piero Agostinone, Domenico Alesi, Marco Bontempi, Stefano Zaffagnini, Laura Bragonzoni

Knee Surgery, Sports Traumatology, Arthroscopy

2020

[Migration of the femoral component and clinical outcomes after total knee replacement: a narrative review](#)

Authors: Raffaele Zinno, Stefano di Paolo, Giuseppe Ambrosino, Domenico Alesi, Stefano Zaffagnini, Giuseppe Barone, Laura Bragonzoni

Musculoskeletal surgery

2020

[Multi-radius posterior-stabilized mobile-bearing total knee arthroplasty partially produces in-vivo medial pivot during activity of daily living and high demanding motor task](#)

Authors: Giulio Maria Marcheggiani Muccioli, Nicola Pizza, Stefano Di Paolo, Raffaele Zinno, Domenico Alesi, Tommaso Roberti Di Sarsina, Marco Bontempi, Stefano Zaffagnini, Laura Bragonzoni

Knee Surgery, Sports Traumatology, Arthroscopy

2020

[In vivo femorotibial kinematics of medial-stabilized total knee arthroplasty correlates to post-operative clinical outcomes](#)

Authors: Domenico Alesi, Giulio Maria Marcheggiani Muccioli, Tommaso Roberti di Sarsina, Marco Bontempi, Nicola Pizza, Raffaele Zinno, Stefano Di Paolo, Stefano Zaffagnini, Laura Bragonzoni

Knee Surgery, Sports Traumatology, Arthroscopy

2021

Assessment of paradoxical anterior translation in a CR total knee prosthesis coupling dynamic RSA and FE techniques

Authors: Agostino Igor Mirulla, Laura Bragonzoni, Stefano Zaffagnini, Tommaso Ingrassia, Raffaele Zinno, Bernardo Innocenti

Journal of Experimental Ortopaedics

2021

In vivo kinematic comparison between an ultra-congruent and a posterior-stabilized total knee arthroplasty design by RSA

Authors: Tommaso Roberti di Sarsina, Domenico Alesi, Stefano Di Paolo, Raffaele Zinno, Nicola Pizza, Giulio Maria Marcheggiani Muccioli, Stefano Zaffagnini, Laura Bragonzoni.

Knee Surgery, Sports Traumatology, Arthroscopy

2021

Evaluation of the Efficacy and Safety of an Exercise Program for Persons with Total Hip or Total Knee Replacement: Study Protocol for a Randomized Controlled Trial

Authors: Giuseppe Barone, Raffaele Zinno, Erika Pinelli, Pair Study Group; Francesco Benvenuti, Laura Bragonzoni

International Journal of Environmental Research and Public Health

2022

Being active with a total hip or knee prosthesis: a systematic review into physical activity and sports recommendations and interventions to improve physical activity behavior

Authors: Yvet Mooiweer, Martin Stevens, Inge van den Akker-Scheek, and Pair study group
Pair study group: Giuseppe Barone, Francesco Benvenuti, Mihai Berteanu, Laura Bragonzoni, Ileana Ciobanu, Dante Dallari, Ani Dimitrova, Ivo Dimitrov, Jorunn L Helbostad, Alina Iliescu, Pasqualino Maietta Latessa, Andreea Marin, Alessandro Mazzotta, Ann-Katrin Stensdotter, Odd M Hals, Håvard Østerås, Cristiano Paggetti, Erika Pinelli, Nataliya Shalamanova, Rumyana Shalamanova, Claudio Stefanelli, Matei Teodorescu, Nikolay Todorov, Stefania Toselli, Maya Tsvetanova, Monica Unsgaard-Tøndel, Lora Yoncheva, Raffaele Zinno

European Review of Aging and Physical Activity

2022

The Effects of Park Based Interventions on Health: The Italian Project "Moving Parks"

Authors: Stefania Toselli, Laura Bragonzoni, Laura Dallolio, Grigoletto Alessia, Alice Masini, Sofia Marini, Giuseppe Barone, Erika Pinelli, Raffaele Zinno, Mario Mauro, Gerardo Astorino, Pietro Loro Pilone, Simona Galli, Pasqualino Maietta Latessa

International Journal of Environmental Research and Public Health

2023

Influence of Coaching on Effectiveness, Participation, and Safety of an Exercise Program for Postmenopausal Women with Osteoporosis: A Randomized Trial

Authors: Laura Bragonzoni, Giuseppe Barone, Francesco Benvenuti, Claudio Ripamonti, Lucia Lisi, Maria Grazia Benedetti, Sofia Marini, Laura Dallolio, Pasqualino Maietta Latessa, Raffaele Zinno, Giuseppe Audino, Wolfgang Kemmler, Erika Pinelli

Clinical Interventions in Aging

2022

On-Field Biomechanical Assessment of High and Low Dive in Competitive 16-Year-Old Goalkeepers through Wearable Sensors and Principal Component Analysis

Authors: Stefano Di Paolo, Francesco Santillozzi, Raffaele Zinno, Giuseppe Barone, Laura Bragonzoni

Sensors

2022

Mobile-Bearing Total Ankle Replacement In Vivo Kinematic Assessment: A Prospective Study Protocol

Authors: Silvio Caravelli, Laura Bragonzoni, Emanuele Vocale, Raffaele Zinno, Stefano Di Paolo, Giuseppe Barone, Paolo De Blasiis, Maria Grazia Benedetti, Stefano Zaffagnini, Massimiliano Mosca

Journal of Clinical Medicine

2022

No kinematical difference between ultra-congruent and medial-congruent total knee arthroplasty when implanted with mechanical alignment: an in vivo dynamic RSA study

Authors: Domenico Alesi, Stefano Di Paolo, Laura Bragonzoni, Nicola Pizza, Stefano Zaffagnini, Raffaele Zinno, Giulio Maria Marcheggiani Muccioli

Knee Surgery, Sports Traumatology, Arthroscopy

2022

Effect of a park-based physical activity intervention on psychological wellbeing at the time of COVID-19

Authors: Stefania Toselli, Laura Bragonzoni, Alessia Grigoletto, Alice Masini, Sofia Marini, Giuseppe Barone, Erika Pinelli, Raffaele Zinno, Mario Mauro, Pietro Loro Pilone, Sonia Arduini, Simona Galli, Mauro Vitiello, Bruno Vicentini, Giorgia Boldrini, Muriel Assunta Musti, Paolo Pandolfi, Maurizio Liberti, Gerardo Astorino, Pasqualino Maietta Latessa, Laura Dallolio

International Journal of Environmental Research and Public Health

2023

Barriers and facilitators to exoskeleton use in persons with spinal cord injury: a systematic review

Authors: Erika Pinelli, Raffaele Zinno, Giuseppe Barone, Laura Bragonzoni

Disability and Rehabilitation: Assistive Technology

2023

Wider translations and rotations in posterior-stabilised mobile-bearing total knee arthroplasty compared to fixed-bearing both implanted with mechanical alignment: a dynamic RSA study

Authors: Raffaele Zinno, Domenico Alesi, Stefano Di Paolo, Nicola Pizza, Stefano Zaffagnini, Giulio Maria Marcheggiani Muccioli, Laura Bragonzoni

Knee Surgery, Sports Traumatology, Arthroscopy

2023

Participants Characteristics of a Park-Based Physical Activity Intervention in an Urban Context—A Cross-Sectional Study in Bologna, Italy

Authors: Alessandro Bianconi, Alice Masini, Francesco Sanmarchi, Stefania Toselli, Alessia Grigoletto, Sofia Marini, Giuseppe Barone, Erika Pinelli, Raffaele Zinno, Mario Mauro, Pietro Loro Pilone, Sonia Arduini, Mauro Vitiello, Bruno Vicentini, Giorgia Boldrini, Muriel Assunta Musti, Paolo Pandolfi, Maurizio Liberti, Gerardo Astorino, Pasqualino Maietta Latessa, Laura Bragonzoni, Laura Dallolio

Healthcare

2024

In Vivo Total Ankle Arthroplasty Kinematic Evaluation: A Prospective Radiostereometric Analysis

Authors: Silvio Caravelli, Laura Bragonzoni, Raffaele Zinno, Emanuele Vocale, Erika Pinelli, Giuseppe Barone, Giulio Vara, Stefano Di Paolo, Stefano Zaffagnini, Massimiliano Mosca

Biomedicines

● **CONFERENCES AND SEMINARS**

4 NOV 2023 – 6 NOV 2023 Naples (Italy)

The affective experiences of exercise and environmental factors influence attendance at outdoor physical activity

XIV Italian National Congress of Sport Science (SISMES)

Poster presentation

4 NOV 2023 – 6 NOV 2023 Naples (Italy)

The stump bone quality in amputee patients: a systematic review and meta-analysis of 561 lower limb amputees

XIV Congresso Nazionale Società Italiana Scienze Motorie e Sportive (SISMES)

Poster presentation

4 JUL 2023 – 7 JUL 2023 Paris (France)

Kinematical differentials between healthy and shoulder-injured softball players

28th Annual congress of the European College of Sport Science (ECSS)

Poster presentation

13 APR 2023 – 14 APR 2023 Nijmegen (the Netherlands)

In-vivo kinematics evaluation of total ankle replacement through dynamic radiostereometric analysis: a prospective study

8th international RSA meeting (IRSA)

Oral presentation

6 NOV 2022 – 6 NOV 2022 Bari (Italy)

In-vivo kinematics evaluation of total ankle replacement through dynamic radiostereometric analysis: a prospective study

Italian Society of Movement Analysis in Clinic (SIAMOC)

Poster presentation

28 AUG 2022 – 2 SEP 2022 Siviglia (Spain)

The importance of Soccer-Specific motor coordination in Elite Soccer Academy Players' Agility Testing

27th Annual congress of the European College of Sport Science (ECSS)

Oral presentation

2021 – 2021 Bari (Italy)

Kinematical patterns through Dynamic RSA reflected clinical outcomes improvement during at two-years follow up

Società Italiana di Analisi del Movimento in Clinica (SIAMOC)

8 OCT 2021 – 10 OCT 2021 Padova (Italy)

Could the addition of sport-specific interactions be beneficial on agility and strength performance assessment in football academies? A variation of the Illinois test

XII Congresso Nazionale Società Italiana Scienze Motorie e Sportive (SISMES)

Oral presentation

21 JUN 2021 – 23 JUN 2021 Web conference

Joint kinematics and reaction forces in downward dog position: Quantitative differences among yoga practitioners

International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM)
Poster presentation

9 MAY 2021 – 11 MAY 2021 Oslo (Norway)

Kinematical comparison between ultra-congruent and posterior-stabilized total knee arthroplasty: dynamic RSA study

7th International RSA meeting (IRSA)
Oral presentation

27 OCT 2020 – 30 OCT 2020 Siviglia (Spain)

Kinematic and clinical difference between a cruciate-retain and posterior-stabilized prosthesis during a sit to stand

25th Annual congress of the European College of Sport Science (ECSS)

26 SEP 2019 – 28 SEP 2019 Bologna (Italy)

Posterior Stabilized Rotating Platform Total Knee Arthroplasty Design partially restores normal knee kinematics during two tasks: Sit to stand and Lunge"

XI Congresso Nazionale Società Italiana Scienze Motorie e Sportive (SISMES)
Oral presentation

2 JUL 2019 – 5 JUL 2019 Prague (Hungary)

Does the femoral multi-radius design allow a more stable TKA kinematics?

24th Annual congress of the European College of Sport Science (ECSS)
E-poster presentation

3 APR 2019 – 5 APR 2019 Aarhus (Denmark)

In vivo kinematics of a Fixed and Mobile Bearing TKA in the same patient; a case report

6th International RSA meeting (IRSA)
Oral presentation

● **CO-AUTHOR AT CONFERENCES AND SEMINARS**

4 NOV 2023 – 6 NOV 2023

Barriers and facilitators in implementing active breaks interventions during work: a systematic review

XIV Italian National Congress of Sport Science (SISMES) - Naples (Italy)
Poster presentation

4 NOV 2023 – 6 NOV 2023

Total ankle replacement in-vivo kinematic evaluation: a prospective radiostereometric analysis

XIV Italian National Congress of Sport Science (SISMES) - Naples (Italy)
Poster presentation

4 NOV 2023 – 6 NOV 2023

Kinematical differences between healthy and shoulder-injured softball players

XIV Italian National Congress of Sport Science (SISMES) - Naples (Italy)
Poster presentation

24 MAY 2023 – 26 MAY 2023

Kinematic Evaluation In Vivo Of Total Ankle Replacement Through Anterior Approach Using The Model-Based Dynamic Radiostereometric Analysis: A Prospective Study

24th European Federation of National Associations of Orthopaedics and Traumatology (EFORT) Congress - Vienna (Austria)
Poster presentation

24 MAY 2023 – 26 MAY 2023

Evaluation Of Ankle Dynamic Balance And Mobility Through Star Balance Test After Total Ankle Replacement

24th European Federation of National Associations of Orthopaedics and Traumatology (EFORT) Congress - Vienna (Austria)
Poster presentation

30 AUG 2022 – 2 SEP 2022

Evaluation of Ankle Dynamic Balance and Mobility through Star Balance Test after Total Ankle Replacement

27th Annual congress of the European College of Sport Science (ECSS) - Siviglia (Spain)
Poster presentation

30 AUG 2022 – 2 SEP 2022

Training and Detraining effect after Home-Based Exercise program administered as monitored individual Home training or Supervised online Group Training

27th Annual congress of the European College of Sport Science (ECSS) - Siviglia (Spain)

28 AUG 2022 – 2 SEP 2022

Evaluation of Postural Stability and Proprioception in subjects before and After Total Ankle Replacement

27th Annual congress of the European College of Sport Science (ECSS) - Siviglia (Spain)

28 AUG 2022 – 2 SEP 2022

On-Field biomechanical assessment of Hig and Low Diving in competitive goalkeepers' through wearable

27th Annual congress of the European College of Sport Science (ECSS) - Siviglia (Spain)

22 JUN 2022 – 24 JUN 2022

In Vivo Kinematical Comparison Between Ultra-Congruent (UC) And Medial-Congruent (MC) Total Knee Arthroplasty Design

23th European Federation of National Associations of Orthopaedics and Traumatology (EFORT) Congress - Lisbon (Portugal)
Oral presentation

27 NOV 2021 – 30 NOV 2021

Can Total Knee Arthroplasty Restore Normal Knee Kinematics? An In-Vivo RSA Comparison of Two TKA Designs

13th Biennial International Society of Arthroscopy, Knee surgery & Orthopaedic Sports Medicine (ISAKOS) Congress - Cape Town - South Africa
Oral presentation

27 NOV 2021 – 30 NOV 2021

In-vivo femorotibial kinematics of medial-stabilized total knee arthroplasty correlates to postoperative clinical outcomes

13th Biennial International Society of Arthroscopy, Knee surgery & Orthopaedic Sports Medicine (ISAKOS) Congress - Cape Town - South Africa
Oral presentation

10 MAY 2021 – 12 MAY 2021

In vivo biomechanics assessment of a CR total knee prosthesis during sit to stand: coupling dynamic RSA and FE analysis

7th International RSA meeting (IRSA) - Online
E-Poster presentation

10 MAY 2021 – 12 MAY 2021

Kinematical patterns through Dynamic RSA reflected clinical outcomes improvement during at two years follow-up

7th International RSA meeting (IRSA) - Online
E-Poster presentation

10 MAY 2021 – 12 MAY 2021

A positive correlation exists between intra- and post-operative kinematics of a Posterior Stabilized total knee arthroplasty: preliminary analysis

7th International RSA meeting (IRSA) - Online
Oral presentation

28 OCT 2020 – 30 OCT 2020

Kinematical Analysis Of A Medial Stabilized Total Knee Arthroplasty During Sit To Stand And Lunge: An In Vivo Dynamic RSA Study

21st European Federation of National Associations of Orthopaedics and Traumatology (EFORT) Congress - Online
Oral presentation

28 OCT 2020 – 30 OCT 2020

Multi-Radius Posterior-Stabilized Rotating-Platform Total Knee Arthroplasty Partially Produces In-Vivo Screw-Home Movement During Activity Of Daily Living And High Demanding Motor Task

21st European Federation of National Associations of Orthopaedics and Traumatology (EFORT) Congress - Online
E-Poster presentation

1 OCT 2019 – 3 OCT 2019

Does the femoral multi-radius design allow a more stable TKA kinematics?

European Orthopaedic Research Society (EORS) – Maastricht – the Netherlands

26 SEP 2019 – 27 SEP 2019

Can a medially stabilized TKA design approach a natural knee kinematics?

XI Italian National Congress of Sport Science (SISMES) – Bologna - Italia
Oral presentation

6 JUL 2019 – 9 JUL 2019

Can a medially stabilized TKA design approach a natural knee kinematics?

25th Congress of the European Society of Biomechanics (ESB) - Vienna
Oral presentation

3 APR 2019 – 5 APR 2019

In-Vivo kinematic evaluation of a new design total knee arthroplasty using dynamic RSA

6th International RSA meeting (IRSA) - Aarhus (Denmark)
Oral presentation

● **CO-SUPERVISOR FOR THESIS**

Total knee prosthesis with mobile bearing: joint kinematics assessment by dynamic RSA technique

Master's degree in Sciences and Techniques of Preventive and Adapted Physical Activities
Candidate: Antonio Imbrogno

Kinematic Analysis of Softball Throw: Healthy vs. Shoulder Injured

Master's degree in Sciences and Techniques of Preventive and Adapted Physical Activities
Candidate: Alisea Minardi

● **BOOK CONTRIBUTIONS**

2022

Alimentazione e attività fisica gli alleati contro l'osteoporosi. Come investire nella salute delle ossa per tutta la vita

Perugia, Cultura e Salute Editore Perugia, 2022, pp. 91
Authors: Guberti, Emilia; Cairella, Giulia; Nucci, Daniele; Alonzo, Elena; Dallolio, Laura; Masini, Alice; Bragonzoni, Laura; Pinelli, Erika; Zinno, Raffaele; Marini, Sofia; Maietta Latessa, Pasqualino

2021

Physical Activity and Health: Bridging Theory and Practice

Edizione Nuova Cultura, Coop. Libreria Nuova Cultura, 2021, pp. 1 - 262
Authors: Claudio Macchi, Francesco Benvenuti

Chapter title: APA FOR OSTEOPOROSIS PREVENTION

Authors: Bragonzoni Laura; Giuseppe Barone; Erika Pinelli; Giuseppe Audino; Sofia Marini; Pasqualino Latessa Maietta

● **PROJECTS**

31 DEC 2017 – 30 DEC 2020

ActLife - Physical Activity: the tool to improve the quality of Life in osteoporosis people

Erasmus+ Sport Programme Application: 590371-EPP-1-2017-1-ITSPO-SCP

31 DEC 2019 – 30 DEC 2022

PAIR - Physical Activity after hip or knee replacement

Erasmus+ Sport Programme Application: 613008-EPP-1-2019-1-IT-SPO-SCP

28 JAN 2021 – 28 JAN 2024

TwinMED (IIT): expansion of the Twin exoskeleton functionality in the clinical/rehabilitative context

P.I. Project L. Michieli and M. Laffranchi

9 JUL 2017 – 8 JUL 2021

MeTAcOs (INAIL): new methodology for osseointegrated people

P.I. Project: Prof Stefano Zaffagnini

MAR 2021 – APR 2024

Osteocustom (INAIL): personalized processes of amputation treatment through osseointegration

P.I. Project: Prof. Stefano Zaffagnini

● HONOURS AND AWARDS

2016

Prize "Cultura d' impresa" – University of Bologna

To a university career and to a thesis that has particularly distinguished themselves.

● LANGUAGE SKILLS

Mother tongue(s): **ITALIEN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
SPAIN	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Office

Microsoft Office (Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Teams)

Soft Skills

Decision-making | Written and Verbal skills | Organizational and planning skills | Strategic Planning | Conflict resolution | Good listener and communicator

Virtual meeting

Zoom | Skype

Statistics software

R / R studio | IBM Statistical package for Sciences (SPSS) | Statistics and Analytics with JASP