

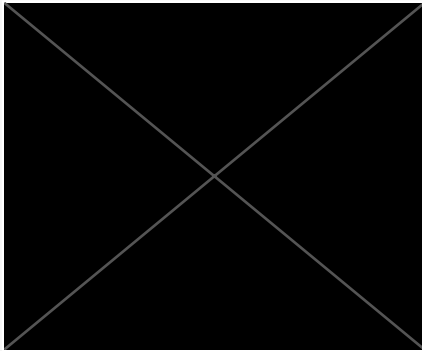


# Gianluca Cidonio



Nationality: Italian

## CONTACT



## WORK EXPERIENCE

- **01/11/2019 – CURRENT** Rome, Italy  
**PostDoctoral Fellow** Istituto Italiano di Tecnologia
- **01/04/2021 – 01/04/2023** Rome, Italy  
**AIRC ALDI Fellow** AIRC-IIT
- **01/11/2019 – CURRENT** Southampton, United Kingdom  
**Visiting Research Fellow** University of Southampton
- **11/2018 – 30/10/2019** Southampton, United Kingdom  
**EPSRC FELLOW** University of Southampton

## EDUCATION AND TRAINING

- **09/2015 – 19/10/2018** Southampton, United Kingdom  
**PhD Engineering** University of Southampton  
Website <https://www.southampton.ac.uk/>
- **01/11/2012 – 01/10/2014** Rome, Italy  
**MSc. Biomedical Engineering** University of Rome "La Sapienza"  
Website <https://www.uniroma1.it/it>
- **01/09/2009 – 31/10/2012** Rome, Italy  
**BSc. Clinical Engineering** University of Rome "La Sapienza"  
Website <https://www.uniroma1.it/it>
- **01/09/2013 – 01/09/2014** Philadelphia, United States  
**Global Exchange program Fellow** Temple University  
Website <https://www.temple.edu/>

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**Other language(s):**

**English**

Listening C2  
Reading C2  
Writing C2

Spoken production C2  
Spoken interaction C2

**Spanish**

Listening B1  
Reading B1  
Writing B1

Spoken production B1  
Spoken interaction B1



## DIGITAL SKILLS

Microsoft Excel | Microsoft Office | Matlab | Microsoft Word | Microsoft Teams | Fusion 360 CAD | COMSOL Multiphysics | Research and Grant Management | Excellent communication skills in Spanish and English | Teaching, explaining

## ADDITIONAL INFORMATION

### Communication and interpersonal skills

[Redacted]

**Lead Demonstrator - Southampton 3D Printing Workshop, University of Southampton**

#### Science communication and public engagement

- Maker Faire Rome - The European Edition
- Show at Palazzo delle Esposizioni (The science of Rome)
- Southampton Roadshow, Thomas Hardy School (Dorchester, UK); Winchester Science Festival (Winchester, UK)

### Honours and awards

[Redacted]

[Redacted]

**2023** ON Foundation

**Bioprinting meniscus implants harnessing microfluidic biofabrication technology to pattern density gradient porosity and biologics (BUBBLES)**

**2021** AIRC

**3D bioprinted model for the study of proliferation, migration and homing of metastasising breast cancer to bone tissue (3D breast-to-bone)**

**2018** EPSRC

**TOWARDS PRINTABLE LIVING BONE: Development and application of innovative natural and nanocomposite-based cell-laden scaffolds for in vivo skeletal regeneration**

**2013** University of Rome "La Sapienza"

**Global Exchange Program Sapienza-Temple**

**2022** Gruppo Italiano Staminali Mesenchimali (GISM)

**Young Investigator Award**

**2019** Italian Consulate UK

**Italy Made Me 2019 Award (for scientific merit of research in UK)**

**2018** Tissue Cells and Engineering Society (TCES) UK

**TCES Adam Curtis Collaboration Award**

### Publications

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]



[Redacted]

[Redacted]

[Redacted]

**Microfluidic 3D printing of emulsion ink for engineering porous functionally graded materials**

2022

M Marcotulli, [...] G Cidonio and A Barbetta; Advanced Materials Technologies

**Modelling skeletal pain harnessing tissue engineering** 2022

L Iafrate, [...] G Cidonio; In vitro models

**Bioprinting stem cells: building physiological tissues one cell at a time** 2020

C Scognamiglio, A Soloperto, G Ruocco and G Cidonio; Am. J. Physiol. Physiol. 319 C465–80

[Redacted]

[Redacted]

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[Redacted]

[Redacted]

G Loi, [...] G Cidonio, N Marchesi, L Benedetti, G Ceccarelli, M Conti; Gels 9:595

**3D printing of inorganic-biopolymer composites for bone regeneration** 2022

D van der Heide, G Cidonio, M J Stoddart, M D'Este; Biofabrication 14 042003

**De Novo Design of Functional Coassembling Organic-Inorganic Hydrogels for Hierarchical Mineralization and Neovascularization**

2021



B O Okesola, [...] G Cidonio, [...] R O C Oreffo and A Mata; ACS Nano 15, 11202–11217

**3D printing of biphasic inks: beyond single-scale architectural control** 2021

G Cidonio, M Costantini, F Pierini, C Scognamiglio, T Agarwal, A Barbetta; J. Mater. Chem. C

**Nanoclay-based 3D printed scaffolds promote vascular ingrowth ex vivo and generate bone mineral tissue in vitro and in vivo**

2020

G Cidonio, [...] R O C Oreffo; Biofabrication

**Printing bone in a gel: using nanocomposite bioink to print functionalised bone scaffolds** 2019

G Cidonio, M Cooke, M Glinka, J I Dawson, L Grover, R O C Oreffo; Materials Today Bio

**The cell in the ink: improving biofabrication by printing stem cells for skeletal regenerative medicine**

2019

G Cidonio, M Glinka, J I Dawson, R O C Oreffo; Biomaterials

**Osteogenic and angiogenic tissue formation in high fidelity nanocomposite Laponite-gelatin bioinks**

2019

G Cidonio, [...] R O C Oreffo; Biofabrication

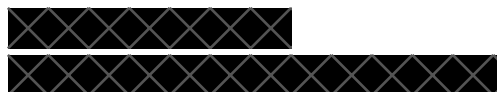
**Development of a clay based bioink for 3D cell printing for skeletal application** 2017

T Ahlfeld & G Cidonio, [...] R O C Oreffo & M Gelinsky

**Nanocomposite clay-based bioinks for skeletal tissue engineering** 2020

G Cidonio, M Glinka, Y-H Kim, J I. Dawson and R O C Oreffo; Springer Methods Mol Biol

**Conferences and seminars**



**2022** Manchester, USA

**University of New Hampshire Lecture - invited talk**

**2022** Milan, Italy

**33.BI-MU FieraMilano, New technologies for biofabrication**

**2022 - 2022** Vienna, Austria

**Vienna Ludwig Boltzmann Lecture series**

**2022** Montecatini, Italy

**International Society for Biofabrication 2022 conference - Keynote speaker**

**2022** Krakow, Poland

**Tissue Engineering and Regenerative Medicine Society (TERMIS) - EU 2022**

**2019** Rhodes, Greece

**Tissue Engineering and Regenerative Medicine Society (TERMIS) - EU 2019**



2018 Würzburg, Germany

International Society for Biofabrication 2018 conference

**Management and leadership skills**

Communications Officer (Communications & Outreach Committee) TERMIS EU SYIS

Future Investigators in Regenerative Medicine (FIRM) organising committee

Editorial Board member for BMC Methods and Early Career Board Member for In vitro models, Frontiers in Medical Technology and Frontiers in Biomaterials Science (Frontiers)

**Research supervision**

**Main advisor for students in the lab of Prof Ruocco**

Federico Serpe (PhD, Sep 2020 – present); Martina Marcotulli (PhD, Nov 2021 – present); Efsun Senturk (PhD, Nov 2022 – present); Arianna Iacomino (MSc, Nov 2022 – present); Andrea Franconetti (MSc, Nov 2022 – present); Sajad Mohammadi (MSc, Jul 2022 – present); Lucia Iafraite (MSc, Apr 2021 – Mar 2022); Maria Celeste Tirelli (MSc, Jan 2021 – Jul 2021);

**Co-advisor for students in the lab of Prof Ruocco:**

Salvatore D'Alessandro (PhD, Nov 2021 – present); Marta Kaciulis (PhD, Jan 2020 – Nov 2022); Liam Chase (BSc, Sep 2020 – Sept 2021); Chiara Giulianelli (MSc, Sept 2020 – Feb 2021); Sara Carmosino (MSc, Sept 2020 – Feb 2021)

**Co-advisor for students in the lab of Prof Oreffo:**

Vikash Dodhia, Andrew Jenkins (MRes, 2018-2019)

**Networks and memberships**

Member of Gruppo Nazionale Bioingegneria

Member of Tissue Engineering and Regenerative Medicine International Society (TERMIS)

Member of International Society for Biofabrication (ISBF)

Member of European Society for Biomaterials (ESB)

