

1. Full name and date

Massera Jonathan

ORCID#0000-0002-1099-8420

Date and place of birth: 11.05.1981, Saint Martin d'Hères (38), France

Citizenship: French

Website : <https://biomeditech.fi/research/bioceramics-bioglasses-and-biocomposites-group/>**2. Education and degree completed**

2009 Doctor of Philosophy, Materials Science and Engineering: Clemson University, SC, USA

2006 Master of Science, Materials Science and Engineering, Double Degree between Polytech'Montpellier, Montpellier, France and Politecnico di Torino, Turin, Italy

3. Current position

Jan.2021- present: Professor (Biomaterials), Tampere University, Faculty of Medicine and Health Technology, Bioceramics, Bioglasses and Biocomposites Group

Aug. 2016-present: Head of the MSc. Programme in Biomedical Sciences and Engineering

4. Previous work experience

2016- Jan.2021: Associate Professor (Tenure Track), Tampere University, Faculty of Medicine and Health Technology, Bioceramics, Bioglasses and Biocomposites Group

Aug. 14- Jun. 16: Assistant Professor (Tenure Track), Tampere University.

Jan. 11-Aug. 14: Senior researcher, Post-Doctoral Researcher appointed by the Academy of Finland, at Åbo Akademi, Finland.

Jan. 10- Dec. 10: Post doctorate at Åbo Akademi, Finland

Sept. 06 – Dec. 09: Teaching assistant at Clemson University, SC/USA

5. Research Funding

2020-2024 Academy of Finland: UNIBIO 414267€

2020-2022 Academy of Finland: RADDESS 148082€

2020-2024 H2020-MSCA-ITN-2019: PREMURSA (Co-PI) 280806€

2018 Tampere University of Technology Foundation: Internationalization 7500€

2017-2020 Academy of Finland: Follow-on Funding for Research Cost 139994€

2016-2021 Jane and Aatos Erkkö Foundation 390000€

2016-2018 Academy of Finland: Mobility Grant to Germany 14400€

2015-2016 company service nLIGHT 9000€

2014-2020 Academy of Finland: Academy Research Fellow 434485€

2014-2017 Academy of Finland: Initial Funding for Research Cost 209765€

2012-2013 company service nLIGHT 7000€

2011-2014 Academy of Finland: Postdoctoral Researcher 283600€

2011 Stiftelsen för Åbo Akademi forskningsinstitut 2011 21600€

2010 Johan Gadolin 24000€

Acquired by my students

2021 EDUFI Scholarship 18000

2017-2021 Tampere University of Technology Foundation: PhD pool 120000€

2016-2018 Tampere University of Technology Foundation: Post-doc pool 72000€

Total of acquired funding **2594499€****6. Leadership and supervision experience****Post Doctoral Researchers (2):** Sari Vanhatuppa (2018); Amy Nommeets-Nomm (2016-2018).**Doctoral Students (9):** Ayush Mishra (2019); Amel Houaoui (2021), Jenna Tainio (started 01.2017),

Inari Lyyra: (started 01.2017); Audrey Deraine (started 10.2019) co-supervision with Prof. E. Pauthe at

Univ. Cergy Pontoise, France, Anastasia Astanina (started 01.2020), Agata Szczodra (started 01.2020),

Virginia Gobbo (Started August 2020), Sonya Ghanavati (Started January 2021).

Masters students (28) **2020(8)**: Krista Oksman, Kenna Brown, Antti Rönkkö, Hanna Hassinen, Mari Lallukka, Hongfei Liu, Olli Korhonen, Tomi Antilla. **2019(2)**: Faheem Bhatti, Mari Saarinen. **2018(2)**: Ngoc Bao Huynh, Edoardo Renzi. **2017(6)**: Jacopo Barbieri, Juuso Pohjola, Marta Martelossi, Amel Houaoui, Viivi Jokinen (Co-supervision with Prof. Minna Kellomäki), Hamasa Mohammad Hashem. **2016(6)**: Jenna Tainio, Srijana Ghimire (Co-supervision with Prof. Minna Kellomäki), Erika Erasmus, Nirajan Ohja, Sergi Roca Puertas, Edoardo Buffa. **2015(1)**: Aida Khayyami. **2014(3)**: Fantine Sabatier, Maude Gaussiran and Cecilia Gestraud (Co-supervision with Dr. Laetitia Petit). **2013(2)**: Morgane Vassalot-Breillot, Marielle Mayran. **2013(1)**: Benjamin Sevrette. **2010(1)**: Corinne Claireaux.

Undergraduate students (16) **2021 (1)**: Suvi Huhtanen. **2019 (1)**: Katja Odell. **2018 (1)**: Tuulia Jokela (Co-supervision with Dr. Terttu Hukka). **2017 (3)**: Mikko Hongisto and Henriikka Teittinen (Co-supervision with Dr. Laetitia Petit), Romain Laurent. **2016 (1)**: Céline Neukomm. **2015 (1)**: Maeva Fabert. **2012 (2)**: Anna Iisa, Gözde Unal. **2011 (1)**: Chao Gao. **2009 (3)**: Jessica Jackson, Jean Remond, Benjamin Tincher. **2008 (3)**: Adam Haldeman, Iona Moog, Arnaud Martin.

Visiting Students (7)

7. Teaching experience

Part of the working group working on the curriculum design of the INTL Bachelor and Head of the INTL MSc programme in Biomedical Sciences and Engineering.

Pedagogical training: Module 1: Cornerstones of teaching: learning theories in university context in Spring 2017 (5 ECU) and Module 2: Planning, practice and evaluation of teaching in spring 2018 (5 ECU)

Tampere University of Technology: Spring 2017-present, BTK 4661: Cell Technology Laboratory, (~20 students), 2 Lectures. Fall 2015-present, BMT 73107: Bioceramics and their clinical applications, (~ 30 students). Fall 2018-present, BMT 12006: Introduction to Biomedical Sciences and Engineering (~15 students)

Åbo Akademi: spring 2010-2014, *MSc*, 416503.0: **Metals Corrosion**, team-taught with Docent Leena Hupa, (~10 students). *MSc*, 416302.0: **Inorganic Chemistry**, (~10 students) Fall 2010-2014. *MSc*, 416517.0: **Materials in Energy Technology**, spring 2011

Clemson University: fall 2007, *CME 241*: **Metrics Laboratory 1** (teacher assistant). Fall 2009 *CME 413*: **Noncrystalline Materials** (teacher assistant),

8. Experience of organizing scientific meetings

Organizing Committee of the EMBEC and NBC 17 (~700 participants), ESB 2018 (~800 participants), BioMah2020 and EUROMAT 2019.

9. Awards, prizes and honours

2015 Outstanding reviewer award, Elsevier, **2009** Graduate Fellow Program 2009, COMSET (\$7500), **2008** Professional Enrichment Grant 2008 (\$500)

Glass and Optical materials Division of the American Ceramic Society, Best Graduate Student Poster Award – First Place- in recognition of the poster presentation entitled: “Tellurite based glasses for infrared application”. J. Massera, A. Haldeman, L. Petit, K. Richardson.

10. Other key scientific academic merits

Opponent of doctoral dissertation (Rennes University, France and Politecnico di Torino, Italy)

Reviewer International journals, including but not limited to, Acta Biomaterialia, J. of Alloy and Compounds, ACS Applied Materials, JACERS and Materials Science and Engineering C.

Reviewer of international proposals (DGG, Germany; National Science Center, Poland; Canada Foundation for Innovation). Reviewer for ERC-CoG 2020.

Invited Talk at Politecnico di Torino (Italy), Rennes University (France), Bordeaux University (France), University of Cergy Pontoise (France) and the University of Honk Kong (Hong Kong).

11. Memberships and positions of trust in scientific societies

Member of the technical committee on bioactive glasses (TC04),

Lifetime member of the American Ceramic Society (ACerS) and Bioceramics

Associate Editor of Biomedical Glasses

Editor of a Special Issue on Bioactive Glass for Journal of Functional Biomaterials