

MATTIA MURACCHIOLI

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PROFESSIONAL EXPERIENCE

PhD Visiting

November 2022-March 2023 University of Oulu, Oulu, Finland

- Development of new ceramics membranes for reactor waste adsorption. The main object was to optimize the process and the properties through extensive use of R and Python for the data analysis based on a design of experiment approach

PhD Student

October 2020-Present University of Padua, Padua, Italy

- Development of statistical models to predict the properties of new types of materials for environmental and energy-storing applications. The statistical methods have been developed through extensive use of R and Python for the data analysis based on a design of experiment approach. Latest studies on possible machine learning approach

Assistan Research

November 2019-October 2020 University of Padua, Padua, Italy

- I was involved in a European project aimed to build an Ecosystem for the up-scaling of lightweight multi-functional concrete and ceramic materials and structures. My responsibility was to develop a new characterization method for advanced ceramics materials

CONFERENCE & PUBLICATIONS

ICACC 2023

January 2023 Daytona, USA

- Invited talk at the most important conference in the world related to ceramics materials (organized by the American Ceramics Society); presented the work related to my latest published article with a strong focus on further machine learning techniques to predict the properties of materials

Article

November 2022

- Modeling the compressive strength of metakaolin-based geopolymers based on the statistical analysis of experimental data

Ceramics in Europe

July 2022 Cracow, Poland

- Oral presentation regarding the optimization of a new manufacturing process technique for ceramics materials throughout a Design of experiment approach.

Geopolymer-Camp

September 2021 Saint-Quentin, France

- Oral presentation regarding the granulation and Robocasting process of geopolymer for Carbon-Dioxide Adsorption

EDUCATION

PhD industrial Engineering

2020 – Present University of Padua

Master in Datascience

2022 – Present Rome Business School

Master degree in materials engineering

2016 – 2019 University of Padua

Bechelor degree in chemical engineering and materials

2011 – 2015 University of padua

HARD SKILLS

Additive Manufacturing Data Science
Modeling Python R Power BI
Tableau Chemistry Material Science
Statistics

SOFT SKILLS

Analytical mind Passionate
Emphatic Perfectionist Ambitious
Team Work Leadership

HOBBIES

PC Buiding Swimming
Playing Video Games

LANGUAGES

Italian
English



OTHER INFORMATION

- Availability to travel and transfers abroad
- Working availability: full time