

# Mihaela CHIAPPETTA

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Italy, August 28, 1993  
ADDRESS: Via Palermo 10, 91020 Poggioreale, Italy  
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## WORK EXPERIENCE

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JAN 2023-ONGOING	Research fellow in <a href="#">SIMULATION METHODS FOR THERMO-MECHANICAL PROBLEMS AND DEVICE DESIGN</a> at the Department of Civil Engineering of the University of Pavia. Supervisors: Prof. Ferdinando AURICCHIO, Dr. Massimo CARRATURO
NOV 2022-ONGOING	Ph.D. Students in <a href="#">DESIGN, MODELING, AND SIMULATION IN ENGINEERING</a> at the Department of Civil Engineering of the University of Pavia. Supervisors: Prof. Ferdinando AURICCHIO, Dr. Massimo CARRATURO
MAY 2022-SEP 2022	Research Scholarship on <a href="#">UNCERTAINTY QUANTIFICATION FOR ADDITIVE MANUFACTURING</a> at the Chair for <a href="#">UNCERTAINTY QUANTIFICATION FOR ADDITIVE MANUFACTURING</a> at the Department of Civil Engineering of the University of Pavia . Supervisors: Prof. Ferdinando AURICCHIO, Dr. Massimo CARRATURO
DEC 2016-FEB 2017	Training and orientation internship, Comune di Poggioreale - Ufficio Tecnico - Via Ximenes n. 1 – 91020 Poggioreale

## EDUCATION

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SEPT 2019-APR 2022	Master Degree in <a href="#">CIVIL ENGINEERING</a> Final Grade: 110/110 cum laude, <b>University of Pavia</b> , Pavia, Italy Thesis: “Uncertainty Quantification for Metal Additive Manufacturing.” Supervisors: Prof. Ferdinando AURICCHIO, Dr. Massimo CARRATURO Co-advisors: Dr. Lorenzo TAMELLINI, Dr. Chiara PIAZZOLA
SEPT 2012-OCT 2017	Bachelor Degree in <a href="#">CIVIL ENGINEERING</a> Final Grade: 90/110, <b>University of Palermo</b> , Palermo, Italy Thesis: “La gestione della risorsa idrica dell’invaso Garcia” Supervisor: Prof. Ing. Marcella CANNAROZZO
SEPT 2007-JUL 2012	Liceo Scientifico “ <b>M. Cipolla</b> ” (High school degree), Castelvetro, Italy — Final Grade: 85/100

## RESEARCH AND PUBLICATIONS

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26 JUN 2023 (TO BE SUBMITTED)	Chiappetta, M., Piazzola, C., Carraturo, M., Tamellini, L., Reali, A., and Auricchio, F. (2023). Multi-fidelity uncertainty quantification for experimental validation of laser powder bed fusion additive manufacturing.
1 JUN 2023	Chiappetta, M., Piazzola, C., Carraturo, M., Tamellini, L., Reali, A., and Auricchio, F. (2023). Sparse-grids uncertainty quantification of part-scale additive manufacturing processes. <i>International Journal of Mechanical Sciences</i> , 108476.

## SEMINARS AND COMMUNICATIONS

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21-24 AUG 2023	SPARSE-GRIDS UNCERTAINTY QUANTIFICATION OF PART-SCALE ADDITIVE MANUFACTURING PROCESSES.. INTERNATIONAL SUMMER SCHOOL DCMS MATERIAL 4.0 (Poster presentation and contributed talk), Dresden, Germany. Data-driven exploration and design of materials.
19-21 JUN 2023	MULTI-FIDELITY UNCERTAINTY QUANTIFICATION FOR EXPERIMENTAL VALIDATION OF METAL ADDITIVE MANUFACTURING PROCESS , Young Investigator Conference YIC2023, Porto, Portugal. Work in collaboration with C. Piazzola, M. Carraturo, L. Tamellini, A.Reali, F. Auricchio.
29-30 SEPT 2022	M. Chiappetta, C. Piazzola, M. Massimo Carraturo, L. Tamellini, A. Reali, F. Auricchio UNCERTAINTY QUANTIFICATION FOR ADDITIVE MANUFACTURING, GIMC-SIMAI Young 2022 workshop, Pavia, Italy. Work in collaboration with C. Piazzola, M. Carraturo, L. Tamellini, A.Reali, F. Auricchio.

## RELEVANT COURSEWORK

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MATERIAL CONSTITUTIVE MODELS (M.Sc. course)  
NONLINEAR COMPUTATIONAL MECHANICS (M.Sc. course)  
ADVANCED PARALLEL PROGRAMMING IN C++ (WCCM Course)  
PROGRAMMING 1 WITH PYTHON (Ph.D. Course)  
IMMERSED BOUNDARY METHODS (Ph.D. Course)  
STRUCTURAL OPTIMIZATION (Ph.D. Course)  
COMPUTATIONAL MODELS FOR NONLINEAR SOLID MECHANICS (Ph.D. Course)  
HISTORICAL DEVELOPMENT OF CONSTRUCTION SCIENCE AND TECHNOLOGY (M.Sc. Course)  
DATA-DRIVEN EXPLORATION AND DESIGN OF MATERIALS (Ph.D Course)  
UNCERTAINTY QUANTIFICATION (Ph.D Course)

## LANGUAGES KNOWLEDGE

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ENGLISH: Fluent  
ITALIAN: Mother tongue

## COMPUTER KNOWLEDGE

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Operative system:	LINUX, WINDOWS
Programming languages:	MATLAB, MATHEMATICA, ACEGEN, ACEFEM, PYTHON, C++
Programs and software:	ANSYS, ABAQUS, L <sup>A</sup> T <sub>E</sub> X, SAP, Autodesk AutoCAD, AutoCAD Map3D, SEISMO-STRUCT, RocFall-Rocscience, ArcMap, Civil Design, Rinoceros, MS Office

## LANGUAGES AND COMPUTER CERTIFICATIONS

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05 JUN 2017	Pearson LCCI Certificate PEARSON LCCI LEVEL I CERTIFICATE IN ESOL LINTERNATIONAL (CEFR B2), <b>Pearson Education Ltd ITAL 1246/13380558</b> , regulated by Ofqual London Chamber of Commerce and Industry from Pearson
04 MAY 2014	AutoCad2D CENTRO TERRITORIALE PER L'ISTRUZIONE E LA FORMAZIONE IN ETÀ ADULTA (E.D.A.), <b>Istituto Comprensivo Radice – Pappalardo</b> , Castelvetro, Italy
08 SEP 2013	CAD2D CENTRO TERRITORIALE PER L'ISTRUZIONE E LA FORMAZIONE IN ETÀ ADULTA (E.D.A.), <b>Istituto Comprensivo Radice – Pappalardo</b> , Castelvetro, Italy
27 MAY 2011	“Computer”Operator CENTRO TERRITORIALE PER L'ISTRUZIONE E LA FORMAZIONE IN ETÀ ADULTA (E.D.A.), <b>Istituto Comprensivo Radice – Pappalardo</b> , Castelvetro, Italy
23 DEC 2010	ECDL Certification EURO FORMAZIONE, Sciacca, Italy
29 APR 2010	“Web Master”Operator CENTRO TERRITORIALE PER L'ISTRUZIONE E LA FORMAZIONE IN ETÀ ADULTA (E.D.A.), <b>Istituto Comprensivo Radice – Pappalardo</b> , Castelvetro, Italy