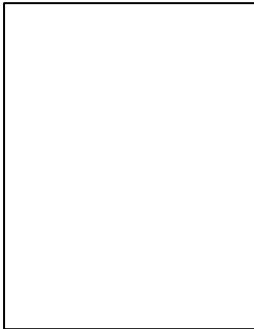


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Contact Information

Surname, Name: **AHMAD, ABAS**
Address: Via Eudossiana 18, Room# 24, Rome (Italy)
E-mail:
PhD Research Group: <https://sites.google.com/uniroma1.it/designmethods-uniroma1/people>
Researchgate: <https://www.researchgate.net/profile/Abas-Ahmad>
Google Scholar: https://scholar.google.com/citations?user=Pb_zwmMAAAAJ

Education

Since 11/2020 Ph.D. in Industrial and Management Engineering (XXXVI Cycle), Sapienza University of Rome (Italy)
09/2016 – 10/2018 Master's Degree in Mechanical Engineering, Sapienza University of Rome (Italy)
Master's Thesis: "Topology Optimization Assessment for Automotive Design"
12/2003 – 12/2007 Bachelor's Degree in Mechanical Engineering, University of Engineering and Technology Peshawar (Pakistan)
Bachelor's Thesis: "Design & Development of Control System for a Gas Geyser"

Professional Career

Since 11/2020 Research Fellow at DIMA, Sapienza University of Rome (Italy)
Since 11/2021 Student's Advisor for Master's Thesis and Research Work at Research Group of Design Methods for Industrial Engineering, DIMA, Sapienza University of Rome (Italy)
11/2019 - 10/2020 CEA General Manager, Advanced Computing and Engineering Solutions (ACES) Islamabad (Pakistan)
10/2018 – 10/2020 Volunteer Remote Research Associate at Research Group of Design Methods for Industrial Engineering, DIMA, Sapienza University of Rome (Italy)
03/2008 – 09/2016 CEA Manager, Advanced Computing and Engineering Solutions (ACES) Islamabad (Pakistan)

Conferences, Summer / Winter Schools and Workshops

March 2022 Design for Additive Manufacturing Workshop 2022, Valletta (Malta)
February 2022 2nd Winter School on "Trends on Additive Manufacturing for Engineering Applications", Brno (Czech Republic)
September 2021 ADM 2021 International Conference, Rome (Italy)
July 2021 GAMM Juniors' Summer School 2021 on Shape and Topology Optimization, TU Graz (Austria)
January 2020 International Bhurban Conference on Applied Sciences and Technology (IBCAST), Islamabad (Pakistan)

Awards and Scholarships

Feb 2021 PhD Scholarship Awarded by Regione Lazio & INFN, Rome (Italy)
Nov 2019 Master's Thesis Awarded with UNRAE Award for Best Thesis in Automotive, Unione Nazionale Rappresentati Autoveicoli Esteri (UNRAE), Rome, Italy
Nov 2018 Master's Degree Final Term Project Awarded with Top 10 Most Popular Award by Future Design Contest (Tech Briefs), New York (USA)
Sep 2016 Master's Studies Scholarship Awarded by Government of Pakistan for Abroad (Italy)
Nov 2007 Bachelor's Thesis Awarded with First Prize by University of Engineering and Technology Peshawar (Pakistan)

Research Interests

- Topology Optimization
 - Additive Manufacturing
 - Finite Element Analysis
 - Design Methods for Industrial Engineering
 - Lattice Structures
 - Virtual Prototyping
 - Numerical Simulations
 - Thermal Structures
 - Reverse Engineering
 - Multi-Body Dynamics Analysis
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Scientific Publications

1. "Guidelines for Topology Optimization as Concept Design Tool and Their Application for the Mechanical Design of the Inner Frame to Support an Ancient Bronze Statue"
<https://doi.org/10.3390/app11177834>
 2. "Application of Topology Optimization to Reduce Automotive Exhaust Emissions"
<https://doi.org/10.4271/13-02-02-0014>
 3. "Simulation Based Topology Optimization Assessment with Manufacturing Constraints"
<https://doi.org/10.1109/IBCAST47879.2020.9044551>
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