



Said Jalal Khanistan

● EDUCATION AND TRAINING

01/10/2019 – CURRENT – Roma, Italy

PHD – Department of Structural and Geotechnical Engineering, University of Rome “La Sapienza”

Research Topic:

- *Optimal Anti-Seismic and Energy Efficient Design of Mortar Free Infill Panels Using Recycled Plastic Joints*
- *Usage of 3D printing technology*
- *Application of Machine Learning in Reinforced concrete*

Courses of PhD level:

- *An introduction to the mechanics of soils by Prof. Angelo Amorosi, Sapienza, Dec 9-11 of 2020, 4 CFU*
- *Series of 5 seminars on the topic of "Mechanical morphing of active gels" organized by Prof. Paola Nardinocchi within the Doctoral program in Theoretical and Applied Mechanics of Sapienza, Nov 13 - Dec11, 2020, 6 h*
- *Workshop: Advances in safety assessment of existing reinforced concrete structures, organized by PRODEC, doctoral program in civil engineering, Faculty of Engineering, University of Porto, Dec 04, 2020, 8 h*
- *Series of 10 webinars on 3D printing: Challenges and Opportunities in Construction, organized by doctoral program in civil engineering, University of Porto, 12 Nov 2020 to 16 Jul 2021, 15 h*
- *Information Literacy Skills, Research Strategies and Sharing your Findings, Lecturer: Crowley, Sapienza, January 19-21 / Feb 2-5, 2021, 2 CFU*
- *Numerical Methods for the Solution of Partial Differential Equations, Lecturer: Marco Paggi, Organized by PhD in Systems Science, A.Y. 2020-2021, IMT School for Advanced Studies Lucca, 20 h*
- *Funding and Management of Research and Intellectual Property Lecturer: Marco Paggi, Organized by PhD in Systems Science, A.Y. 2020-2021, IMT School for Advanced Studies Lucca, 10 h*
- *Computer-Aided Engineering for Virtual prototyping and Advanced Manufacturing Lecturers: Marco Paggi and Andrea Amicarelli, Organized by PhD in Systems Science, A.Y. 2020-2021, IMT School for Advanced Studies Lucca, 10 h*
- *Computational Contact and Fracture Mechanics Lecturer: Marco Paggi, Organized by PhD in Systems Science, A.Y. 2020-2021, IMT School for Advanced Studies Lucca, 20 h*
- *Advanced Topics of Computational Mechanics Lecturers: Marco Paggi, Pietro Lenarda, Organized by PhD in Systems Science, A.Y. 2020-2021, IMT School for Advanced Studies Lucca, 20 h*
- *Structural dynamics, by Prof. M. De Angelis, Sapienza, Sep 2021, 3 CFU*
- *Information literacy skills, research strategies and sharing your findings, Crowley, Sapienza, 16/23 Jan 2020, 10 h, 2 CFU*
- *Corso di scrittura tecnico-scientifica, Prof. Emilio Matircciani, Sapienza, 28 Jan- 5 Feb 2020, 24 h, 4 CFU*
- *Continuum mechanics and thermodynamics Prof. Favata, Sapienza, 7- 17 Feb 2020, 15 h, 5 CFU*
- *Modeling of Offshore Structures, Dr. Fantuzzi, Sapienza, 18/19 Feb 2020, 6 h, 2 CFU*
- *Teorie strutturali, Prof. Paolone, Sapienza (Rome), 24/28 Feb 2020, 6 h, 2 CFU*
- *Costruzioni esistenti in muratura "M. Ciampoli", Prof. Trovalusci, Online, 13/29 May 2020, 24 h, 9 CFU*
- *Direct and Inverse Dynamic Problems in Random Vibrations, Prof. Caracoglia/ Gattulli, Online, 3/10 Jul 2020, 12 h, 4 CFU*
- *Structural Dynamic, Prof. Maurizio De Angelis, Online, 14/16/18 Sep 2020, 9 h, 3 CFU*

Address Via Eudossiana 18, Roma, Italy | **Website** <https://web.uniroma1.it/disg/en>

01/09/2017 – 30/11/2018 – Turin, Italy

MASTER IN MANAGEMENT OF DEVELOPMENT – University of Turin

The Master addresses a number of critical questions confronting development practitioners and planners like:

- What are the defining characteristics of **sustainable development**? Which issues and processes can be identified behind this broad concept?

- How to **plan and manage** project interventions to achieve development objectives?
- What is **results-based management** and how is it applied in the development context?
- What **policies and strategies** may contribute to sustainable transformations in terms of cultural, political, social, economic and environmental changes?

Address Turin, Italy | **Website** <https://www.itcilo.org/courses/master-management-development-0> |

Field of study Management of Sustainable International Development | **Level in EQF** EQF level 7 |

Thesis Strengthening democracy through transparent election process in Kabul, Afghanistan

01/02/2013 – 31/07/2013 – Rome, Italy

AUDITING MASTER OF INNOVATION AND CONTROL OF REINFORCED CONCRETE – Roma Tre University

Address Rome, Italy

01/02/2012 – 01/02/2013 – Rome, Italy

MASTER'S IN EVALUATION CONTROL AND REDUCTION OF ENVIRONMENTAL SEISMIC RISK (MECRES) – Faculty of Architecture and Civil and industrial Engineering, University of Rome "La Sapienza"

The objective of the program is to provide advanced training on concepts and methodologies for seismic classification, hazard evaluation, microzonation, anti-seismic design of new structures, retrofit of existing structures, advanced performance-based analysis and design, and risk analysis. The program relies on an international Teaching Body from international schools of earthquake engineering and seismology.

Address Via Antonio Gramsci, 53, Rome, Italy | **Website** <https://www.architettura.uniroma1.it/> |

Field of study Structural and Geotechnical Engineering | **Final grade** 105/110 |

Level in EQF EQF level 7 | **Type of credits** ECTS | **Number of credits** 60 |

Thesis Yield and Ultimate Moment and Curvature Closed-Form Equations for Reinforced Concrete sections | <http://earthquakerisk.blogspot.com/2012/04/mecres-masters-in-evaluation-control.html>

01/09/2004 – 30/07/2009 – Nangarhar, Afghanistan

BACHELOR OF SCIENCE FIVE YEARS (CICLO UNICO) IN "CIVIL ENGINEERING" – Nangarhar University

Several Courses of Mathematics, Fundamentals of Physics, Chemistry, Applied Mechanics, Solid Mechanics, Hydraulics, Surveying, Theory of Structures, Construction Costing, Estimating, Construction Management, Building Material, Soil Mechanics, Highway Engineering, Irrigation, Waste Water, Reinforced Concrete Design, Structural Design Specifications

Address Kabul- Jalalabad Highway, Daronta, Nangarhar, Afghanistan | **Website** <https://nu.edu.af/en> |

Field of study Civil Engineering | **Final grade** 95/100 | **Level in EQF** EQF level 7 |

Thesis Design of five stories Reinforced Concrete Building

● WORK EXPERIENCE

01/10/2014 – 31/12/2019 – Jalalabad, Nangarhar, Afghanistan

PROFESSOR OF CIVIL ENGINEERING – NANGARHAR UNIVERSITY

- *conducting research*
- *Teaching assigned undergraduate courses and seminars.*
- *servng as academic advisor to students*
- *Serving on Faculty or university committees.*

- *Engaging in scholarly activities, and/or creative endeavors, which contribute to the academic mission of the University.*
- *Participating in curriculum development activities.*
- *Serving on graduation committees.*
- *Supervising laboratories.*
- *Independent study activities and off-campus learning such as practicum and internships.*
- *Rendering service to the professional or lay community which is relevant to the individual's academic specialty.*
- *Performing such other related tasks and duties as assigned*

Teaching Activity

Courses

2014- 2019	Structural Concrete Design
2014- 2015	Construction Planning, Equipments and Methods
2014- 2018	Strength of Material
2014- 2019	Engineering Mechanics
2015- 2019	Construction Project Management
2014- 2019	Engineering Mechanics (Statics)

Seminars and Tutorials

2016	Workshop on Modeling for Nonlinear Analyses Using SAP 2000
2015	Seminar on Structural Analyses of buildings using CSI Etabs
2011	HVAC System Efficient Design
2011	Construction Management Seminar
2010	Energy efficiency of masonry walls
2010	Building Cost Estimation Issues in Afghanistan Seminar
2010	Total Station Survey and Road Geometric Design Training

Thesis Supervision

2014- 2019 Supervised and Co-supervised 20 B.Sc. theses each year

Board Activities

2015	Nangrahar University Academic board Member
2010- 2018	Reresentative of Nangarhar University at the Ministry of Higher Education for the University Entry Test Exam (Kankur)
2010- 2018	Member of the Scientific Committee for B.Sc. Diploma Defense Evaluation

01/09/2013 – 01/09/2014 – Rome, Italy

EXTENSION OF RESEARCH STAY – SAPIENZA UNIVERSITY

Under the framework of master at the Department of Structural and Geotechnical Engineering

Topics:

- *Performance-based design of concrete buildings and bridges*
- *Assessment and reduction of the seismic risk of reinforced concrete buildings and bridges*
- *Deterministic and Seismic Assessment of Existing Bridges*

Adviser: Professor Giorgio Monti

01/04/2010 – 01/01/2012 – Jalalabad, Nangarhar, Afghanistan

LECTURER AT THE DEPARTMENT OF CIVIL ENGINEERING – INTERNATIONAL DEVELOPMENT ASSOCIATION (IDA) OF THE WORLD BANK

- *Developing curriculum and syllabuses for Civil Engineering undergraduate courses*
- *Sharing technical advices with the Department of Civil, Construction and Environmental Engineering in various terms*
- *Developing action plan for the entire semester*
- *Participation at the Department Academic Council*
- *Trainer and advisor for B.S. Thesis writing*

Teaching Activity

Courses

2010- 2011	Architectural Design and Building Planning (Sophomore and Senior Students)
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2010- 2011 Strength of Material
2010-2012 Structural Analysis (Sophomore and junior Students), Department of Civil Engineering
2010- 2011 Construction Project Management and Construction Technology at the Department
of Civil Engineering
2010- 2011 Reinforced Concrete Design
2010- 2011 Estimating & Costing, and Construction Technology, (Junior and senior students)
2010- 2011 Computer Aided Design and Graphics and Excel for Engineers

Thesis Supervision

2010 – 2012 Supervised and Co-supervised 25 B.Sc. theses each year

01/03/2010 – 31/12/2011 – Kunar, Afghanistan

PROJECT MANAGER OF KUNAR - NURISTAN PROVINCIAL HIGHWAY CONSTRUCTION – AFGHANISTAN ENGINEERS DISTRICT, US ARMY CORPS OF ENGINEERS

- Managing and leading the project team and recruiting project staff and consultants.
- Managing co-ordination of the partners and working groups engaged in the project.
- Developing and maintaining a detailed project plan
- Managing project deliverables in line with the project plan
- Recording and managing project issues and escalating where necessary
- Resolving cross-functional issues at project level
- Managing project scope and change control and escalating issues where necessary
- Monitoring project progress and performance
- Providing status reports to the project sponsor
- Managing project training within the defined budget
- Liaises with, and updates progress to, project board/senior management
- Managing project evaluation and dissemination activities
- Managing consultancy input within the defined budget
- Final approval of the design specification and providing regular status reports
- Working closely with users to ensure the project meets needs

01/10/2008 – 01/01/2018 – Nangarhar and Kabul, Afghanistan

ENGINEERING CONSULTANT – INDEPENDENT WORK

2019 Design of three story reinforced concrete school building
2018 Design of four story residential reinforced concrete building
2017 Structural design of 8 story reinforced concrete office building
2016 Design of five story dual reinforced concrete structure
2015 Design of five story reinforced concrete building design, Kabul
2015 Structural design of seven story reinforced concrete structure design
2010-2012 Agriculture Faculty Building Project Quality Control
2010-2012 Revision of the design of Administrative Building, Nangarhar University
2010-2012 Revision of the design of Auditorium Complex, Nangarhar University
2010-2012 Revision of the design of Faculty of Sharia and LAW-1, Nangarhar University
2010-2012 Revision of the design of Faculty of Sharia and LAW-2, Nangarhar University
2010-2012 Revision of the design of Master Plan of Nangarhar University Main Campus
2011 Student dormitory Building Project Monitoring
2008 Female Student Dormitory Design Team Member

01/01/2010 – 31/12/2018 – Jalalabad, Nangarhar, Afghanistan

COORDINATION OF PROJECTS – NANGARHAR UNIVERSITY

2015 Post-seismic survey Project of the 2015 Earthquake
2011 Construction Projects by BCL Design Company (Topographic Survey, Master Plan, Structural and Architectural Design Drawings, Specifications,)
2010 – 2012 Construction of Ongoing Projects at Nangarhar University Main Campus

01/01/2006 – 31/12/2008 – Jalalabad, Nangarhar, Afghanistan

SITE ENGINEER AT JALALABAD-TURKHAM SECOND HIGHWAY – NESPAK CONSULTANT COMPANY,

● PUBLICATIONS

Post-seismic damage survey to evaluate the safety of buildings at Nangrahar University due to the April 2015 Earthquake,

Khanistan Said Jalal, Ajmal Stankzia
2015

Published in Nangarhar University Pohe Mujala, 48th Edition, pp 143–195, 2015; (In Pashto language)

Seismic Assessment of 3 span, Simply supported Reinforced concrete existing bridge at Behsood Jalalabad

Khanistan Said Jalal, Momand Ebadurahman
2017

Published in Nangarhar University Pohe Mujala, 57th Edition, pp 107–149, 2017; (In Pashto Language)

A Comparative Study of the Seismic Provision of Afghan Building Code and International Building Code: A Case-Study on a Five-story Reinforced Concrete Moment Resisting frame

Khanistan Said Jalal
2018

Published in Nangarhar University Pohe Mujala, 64th Edition, pp 235–254, 2018; (In Pashto)

the Influence of Infills on Structural Response case study of four story Reinforced Concrete Building: Main Building of the Faculty of Medical Sciences at Nangarhar University

Khanistan Said Jalal, Momand Ebadurahman
2019

Published at Nangarhar University, Pohe Mujala, 78th Edition, pp 59–68, 2019; (In Pashto)

● PROJECTS

01/10/2014 – 31/12/2017

Research Projects

2017 The Influence of Infills on Structural Response case study of four story Reinforced Concrete Building: Main Building of the Faculty of Medical Sciences at Nangarhar University

2017 A Comparative Study of the Seismic Provision of Afghan Building Code and International Building Code: A Case-Study on a Five-story Reinforced Concrete Moment Resisting frame, Nangarhar University

2016 Seismic Assessment of 3 span, simply supported Reinforced concrete existing bridge at Behsood Jalalabad, Nangarhar University

2015 Post-seismic damage survey to evaluate the safety of buildings at Nangrahar after the April 2015 Earthquake, Nangarhar University

● CONFERENCES AND SEMINARS

16/02/2021 – 19/02/2021 – Sapienza

Second edition of the international conference NODYCON2021

Organized by Prof. Walter Lacarbonara and other members of DISG

07/12/2020 – 10/12/2020 – International Centre for Mechanical Sciences, Udine

Advanced Webinar "Advanced Topics in Computational Mechanics" Organized by CISM

26 hours

09/10/2020 – 09/10/2020 – Online

Dinamica stazionaria e propagazione delle onde nelle strutture

By Dr. Annamaria Pau , 2 hours

09/10/2020 – 09/10/2020 – Sapienza

Elasticità e microstruttura delle argille: evidenze sperimentali e modellazione costitutiva

By Prof. Angelo Amorosi, 2 hours

08/10/2020 – 08/10/2020 – Online

Laboratorio virtuale COMSOL Multiphysics(R)

By Dr. Maria, 2 hours

17/09/2020 – 17/09/2020 – Online

Circular Economy in Construction

By Brittany Harris, Phill White, Brendon Kenny, 2 hours

23/06/2020 – 23/06/2020 – CSPFea, Engineering solution,

MIDAS FEA NX introductory seminar

By Ing. Carlo Tuzza, CSPFea, 3 hours

04/06/2020 – 04/06/2020 – Università di Pisa

The dome of Pisa Cathedral

By Dr. Barsi, 3 hours

06/05/2020 – 06/05/2020 – Researcher Academy On Campus, Elsevier Italia

"Are you ready to publish? Understand the process of publishing an article in a scientific journal"

By Massimiliano Bearzot, 2 hours

20/04/2020 – 20/04/2020 – University of Salerno and the Georgia Institute of Technology

Educational webinar on the Design, the computational modeling and failure analysis in the large strain regime of truss structures, and use of the educational software Truss Me!

Organised by Dr.Fernando Fraternali and dr. Ada Amendola, 2 hours

Workshop: Asian-European Advances in Construction and Design

5 hours

Corso per l'utilizzo del catalogo IRIS

By Monica Mignucci, 3 hours

Aggiornamento della competenza professionale degli Ingegneri “Valutazione sperimentale per corretti interventi sulle strutture - edifici, ponti”

8 hours of work, 3 CFU

Specialized Training/Certifications

- Jan 2020 Comsol Multiphysics, Rome
- Oct 2019 Ultimaker, Cura software, Slicing tool for 3D printing
- May 2019 International Course on Seismic analysis of Structures using opensee: Finite Element based frame work and civil engineering application, University of Sapienza, Rome, Italy
- Jun 2018 Postgraduate Certificate in Energy transition: Perspectives and opportunities for the world of work Held at the International Training Center of the ILO, Turin, Italy.
- 2013 Research Tools (MathCAD, Math Lab)
- 2013 SismiCad
- 2013 Simulation and Risk Analysis Tools (Decision Tools Suite Industrial @Risk)
- 2013 Performance Management Oracle Crystal Ball Enterprise.Fusion.Edition.v11.1.)
- May 2011 Certificate in Construction Management, USAID, Nangarhar University, Afg
- May 2011 Certificate of AutoCAD 2011 by USAID, Nangarhar University, Afg
- Mar 2011 ArchiCAD Training Certificate by Graphisoft Company, Nangarhar University, Afg
- Mar 2010 Certificate of Microsoft office tools (Ms Word, Excel, PowerPoint, Access and Ms Project) from Capital College-Peshawar, Pakistan
- Feb 2010 Certificate of Computer Aided Project Management (Primavera p6 version 7), by National Institute of Design and Analysis(NIDA), Peshawar, Pakistan
- Jan 2010 Diploma in Advanced Land Survey (Level, Total Station, GPS) held by Warsak Practical Survey Training Center, Peshawar, Pakistan
- Mar 2009 Certificate of Practical Training held by DAI/ADP-Eastern Region, Afghanistan
- Oct 2008 Certificate of Computer Operating System and navigating through the internet held by Aghaz English Language and Computer Center, Afghanistan
- Feb 2008 Site Engineering Professional Certificate held at the International Relief & Development's Construction Trades and Training Center, Jalalabad, Afghanistan
- Mar 2010 Certificate of Structural Analysis and Design Tools (CSI (SAP2000, ETABS, Safe), Seismic CAD, FEP,)
- 2009 Certificate of Road Geometric Design And Topographic survey (Eagle-point2007)

● **HONOURS AND AWARDS**

Awarded with Master Degree Scholarship at the University of Turin – ITCILO (International Training Centre of the International Labour Organization)

Acomplished Master Degree in International Development

02/2013

Awarded extended duration at Sapienza University for Research Activity – Sapienza University of Rome

Awarded extended duration at Sapienza University in order to conduct research on Risk Analysis and Performance Evaluation of Bridge Structures Under Seismic Loads from February 2013 until September 2014.

31/12/2011

EU-Nice Erasmus Mundus Scholarship for the Master Degree at University of Rome "La Sapienza" – European Commission

Awarded with the prestigious Erasmus Mundus Fellowship, EU-NICE (Eurasian University Network on International Cooperation on Earthquakes). Accomplishment of the Second Level Post-graduate Master's Course on "Evaluation, Control and Reduction of Seismic and Environmental Risks"

● **DIGITAL SKILLS**

My Digital Skills

Microsoft Office | Microsoft Excel | Microsoft Powerpoint | Microsoft Word | Google Drive | social media abilities | Google Docs | python | Machine learning | Internet user | Proficient User of structural designing programs (Sap2000, ETABS, SAFE, CSI/COL) | Proficient user of AUTOCAD REVIT Primavera MATLAB and LUSAS Civil Structural

● **MANAGEMENT AND LEADERSHIP SKILLS**

Diploma in Business Administration (DBA)

March 2010 Capital College-Peshawar, Pakistan

● **LANGUAGE SKILLS**

Mother tongue(s): **PASTHU** | **DARI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
PERSIAN	C2	C2	C2	C2	C2
ENGLISH	C1	C1	C1	C1	C1
ITALIAN	A2	A2	A2	A2	A2
ARABIC	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user