



N/A N/A

Gender: Do not indicate | **Phone number:** (+39) 0 (Mobile) | **Skype:** N/A | **Address:** Italy (Home)

● WORK EXPERIENCE

01/11/2019 – 20/09/2022 Rome, Italy

EDUCATIONAL RESEARCHER (PHD STUDY RESEARCH) FACULTY OF CIVIL AND INDUSTRIAL ENGINEERING, SAPIENZA UNIVERSITY OF ROME

Title: The Shear Capacity of Truss-Type Prefabricated Beams: Tests, Mechanical Model, Design Calibration, and Optimization

Scheme of Research

- **Part 1:** Formulation of a new shear capacity equation based on the experimental evidence gathered and comparison with EC2
- **Part 2:** Inclusion of construction phases in shear capacity equation
- **Part 3:** Calibration of a partial factor covering the resistance model uncertainty, according to NTC-18 and EN 1990 ("Design by testing")
- **Part 4:** Optimization of TTP beams using the newly developed equations or shear, and considering bending capacity and torsional-bending instability, in order to identify the most cost-efficient TTP beams

Business or Sector Education |

Department Department of Structural and Geotechnical Engineering, Faculty of Civil and Industrial Engineering |

Address Via Eudossiana 18, 00184, Rome, Italy | **Website** <https://www.ing.uniroma1.it/>

01/04/2013 – 30/06/2013 Rome, Italy

RESEARCH ASSISTANT ON A PROJECT ON COMPOSITE TRUSS BEAMS SAPIENZA UNIVERSITY OF ROME

- Strain Gages Installation
- Concrete Casting
- Experimental Test Setup
- Everyday Test Report
- Experimental Test Results

Business or Sector Professional, scientific and technical activities |

Department Department of Structural and Geotechnical Engineering

08/2011 – 01/2012 Nangarhar and Kabul, Afghanistan

SITE ENGINEER NAZIR IRFAN CONSTRUCTION COMPANY (NICC), AND BARAK SHIRZAI CONSTRUCTION COMPANY (BSCC)

- Advice in the planning
- Overseeing building work
- Solving technical issues
- Providing technical advice
- Supervising contracted staff
- Ensuring site safety
- Ordering and negotiating the price of materials
- Organizing meeting for problems solving
- Checking and preparing site reports

Address 2201, Nangarhar and Kabul, Afghanistan

● EDUCATION AND TRAINING

01/11/2018 – 20/09/2022 Rome, Italy

DOCTOR OF PHILOSOPHY (PHD) DEGREE Faculty of Civil and Industrial Engineering, Sapienza University of Rome

- Direct and Inverse Dynamic Problems in Random Vibrations
- CORSO - Costruzioni esistenti in muratura "Marcello Ciampoli"
- Teoria Strutturale
- Modelling of Offshore Structures
- APES 2019 (12th Asia-Pacific-Euro Summer School) on Smart Structures Technology
- Dynamics of Structures (Linear and Non-linear Dynamic Analysis of Structures)
- Information Literacy Skills, Research Strategies and Sharing your Findings

Address Via Eudossiana 18, 00184, Rome, Italy | **Level in EQF** EQF level 8

01/11/2014 – 16/03/2016 Rome, Italy

MASTER IN "ADVANCED MODELLING, ANALYSIS AND DESIGN OF STRUCTURES ACCORDING TO EUROCODES (MASTER EUROPROJECT) Faculty of Civil and Industrial Engineering, Sapienza University of Rome

- Basis of Probability
- Modelling and Analysis of Structures
- Eurocodes 0, 1: Basis of structural design, Action on structures
- Eurocodes 2, 3: Design of concrete structures, Design of steel structures
- Eurocodes 4, 5: Design of composite steel and concrete structures, Design of timber structures
- Eurocodes 6, 7: Design of masonry structures, Geotechnical design
- Eurocodes 8, 9: Design of structures for earthquake resistance, Design of aluminium structures

Address Via Eudossiana 18, 00184, Rome, Italy | **Level in EQF** EQF level 7

15/02/2012 – 15/02/2013 Rome, Italy

EXCHANGE STUDENT TO MASTER IN EVALUATION CONTROLLED AND REDUCTION OF THE ENVIRONMENTAL SEISMIC RISK Sapienza University of Rome

- Earthquake Engineering
- Anti-Seismic Design of Reinforced Concrete
- Seismic Isolation
- Design of Masonry Structures
- Assessment of Existing Masonry Structures

Address Via Antonio Gramsci 53, 00197, Rome, Italy | **Level in EQF** EQF level 5

09/2007 – 06/2012 Jalalabad, Afghanistan

BACHELOR OF SCIENCE (B. SC) 5 YEARS DEGREE IN CIVIL ENGINEERING Nangarhar University

- Engineering Mechanics Statics
- Mechanics of Materials
- Structural Analysis
- Soil Mechanics (Geotechnical Engineering)
- Reinforced Concrete Design to ACI Code
- Road Construction
- Environmental Engineering
- Construction Project Quality Management (CPQM)
- Construction Safety

Address Kabul-Jalalabad Highway, Daronta, 2601, Jalalabad, Afghanistan | **Level in EQF** EQF level 6

09/2003 – 06/2006 Jalalabad, Afghanistan

HIGH SCHOOL (12 GRADE) DEGREE Baroo High School

- Mathematics / Algebra
- Physics
- Geometry

-Chemistry
- Trigonometry etc.

Address Baroo, Rodat, 2661, Jalalabad, Afghanistan | **Level in EQF** EQF level 4

● LANGUAGE SKILLS

Mother tongue(s): **PASHTO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
GERMAN	B1	B1	B1	B1	B1
ENGLISH	B2	B2	B2	B2	B2
ITALIAN	B1	B1	B1	B1	B1
PERSIAN	B1	B1	B1	B1	B1

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

● DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Microsoft Power Point | Auto CAD | SAP 2000 | CDS Win - STS
Web | Palisade @Risk

● ADDITIONAL INFORMATION

PUBLICATIONS

[Experimental Tests on Composite Steel-Concrete Truss Beams](#) – 2016

M. A. **Kareemi**, F. **Petrone**, G. **Monti**, (2016) Experimental Tests on Composite Steel-Concrete Truss Beams, Applied Mechanics and Materials, Vol. 847, pp. 68 – 75.
10.4028/www.scientific.net/AMM.847.68

DRIVING LICENCE

Driving Licence: AM

Driving Licence: B

RECOMMENDATIONS

Prof. Giorgio Monti Professor, Supervisor

Prof. Monti is a Full Professor at the Department of Structural and Geotechnical Engineering, Sapienza University of Rome, via Gramsci, 53 – 00197, Rome, Italy, and at the Department of College of Civil Engineering and Architecture, Zhejiang University, 866 Yuhangtang Rd, Hangzhou 310058 P.R. China.

Email giorgio.monti@uniroma1.it

Prof. Giuseppe Carlo Marano Professor

Prof. Marano is a Full Professor and Vice Head of Department ([Department of Structural, Geotechnical and Building Engineering](#)) at Polytechnic University of of Turin (Politecnico di Torino), Corso Duca degli Abruzzi, 24, 10129 Torino, ITALY.

Email giuseppe.marano@polito.it

Sashi Kunnath Professor

Prof. Kunnath is a Full Professor at the Department of Civil and Environmental Engineering, University of California at Davis One Shields Avenue Davis, CA 95616, USA.

Email skkunnath@ucdavis.edu

HONOURS AND AWARDS

2014

Second Level Master – Sapienza University of Rome Master in “Advanced Modelling, Analysis and Design of Structures according to Eurocodes (Master EuroProject)”.

16/01/2012

Scholarship winner under EU-NICE- Erasmus Mundus Action 2 Program – Sapienza University of Rome The Erasmus Mundus Project “EU-NICE: Eurasian University Network for International Cooperation in Earthquake” was a scholarship awarded after a selection among about 1000 candidates for study in Europe, and it was funded by the European Commission

ORGANISATIONAL SKILLS

Organizational skills - Good command of organizational and managerial skills learnt through the opportunity of working with Nazir Irfan Construction Company (NICC) and Barak Shirzai Construction Company (BSCC), Camp Thunder, Gardez Project of USACE, Paktia Province, Afghanistan.

COMMUNICATION AND INTERPERSONAL SKILLS

Interpersonal Skills - Apart from Conflict resolution, Authenticity, Emotional intelligence, Articulation and tone of voice, I have good ability to listen and communicate effectively with a wide range of people, and to adapt in multicultural environments gained during my stay generally in Europe and specifically in Italy & Germany

- Good communication skills expanded through my experience as Research Assistant in different research activities during my research career.

COURSES

Various course in different dates

Course of Existing masonry buildings “M. Ciampoli”, 13-29 May 2020, Sapienza University of Rome.

1st Short Course on Multihazard for Extreme Events: *Fires, Explosions, Flood, Earthquakes, September 17-20, 2019*, University of Cagliari (Italy).

5th International Workshop DISS_17- Dynamic Interaction of Soil and Structure, October 19 -20, 2017, Roma Tre University of Rome.

2nd International Short Course on “Seismic Analysis of RC Structures using OPENSEES”, February 17, 2017, Roma Tre University of Rome.

SLT (Seminar for Language Teachers), Kabul English Language Center, Sanayee Development Foundation, May 3, 2005, Peshawar, Pakistan.

Special writing class, Kabul English Language Center, Sanayee Development Foundation, July 20, 2005, Peshawar, Pakistan.

CERTIFICATES

Various Certificates

Specialization Course, issued by EDIL CAM ® Sistemi S.r.l in partnership with GLIS, Seismic Isolation Working Group, order of Architects of the Province of Rieti, order of Engineers of the Province of Rieti, May 21, 2015, ATER of the Province of Rieti.

PRESENTATIONS

12/07/2021 – 12/07/2021

Optimization of (TTP) Truss-Type Prefabricated Beams

Quick review of Truss-Type Prefabricated (TTP) beams.
Experimental tests on TTP beams.

Calibration of partial factor covering uncertainty in the resistance model according to NTC-18 and EN 1990 ("Design by testing"), based on experimental results, both performed and available in the literature.

16/10/2020 – 16/10/2020

Optimization of (TTP) Truss-Type Prefabricated Beams

Introduction to TTP Beams (production stages, advantages, and usage.)

Formulation of a shear capacity equation for (TTP) beams according to Eurocode 2, based on the theory of the variable-angle strut typically used in reinforced concrete, adapted to TTP.

Extension of the shear capacity equation to consider construction stages.

10/03/2016 – 10/03/2016

Experimental Behaviour of Composite Truss Beams, March 10, 2016,

Introduction to Composite Truss beams or REP ® beams, production stages, usage, geometrical and mechanical parameters of CT beams, members geometrical and mechanical properties, strain gages installation, concrete casting, experimental test setup, experimental tests and their results.

2012

Design of 8 km long road on Turkham Jalalabad road.
