

Date of birth October 26th, 1986 – Rome, Italy

Contact

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Current position

Oct 2015 – Present Ph.D. Student – Roma TRE University, Department of Civil Engineering
(Ph.D. Civil Engineering, '2018 – Full scholarship awarded)

Dissertation:

R-Funicularity: a new concept for evaluating the behavior of form-found shell structures

Advisors: Prof. Stefano Gabriele and Prof. Fabrizio Paolacci

**Jan-July 2018 Visiting Student Research Collaborator - Princeton University (USA),
Department of Civil & Environmental Engineering**
(Visiting period supported by Princeton University International Fund)

Advisor: Prof. Sigrid Adriaenssens

Journal papers

Gabriele S., Varano V., Tomasello G., Alfonsi D., R-Funicularity of form-found shell structures, *Engineering Structures*, 157, 157-169, 2018.

Tomasello G., Gabriele S., Adriaenssens S., Dynamic behavior of form-found shell structures according to Modal and Dynamic Funicularity, Submitted, 2018.

Conference papers

Tomasello G., Gabriele S., Adriaenssens S., R-Funicularity of shell structures under dynamic load: the influence of the shape, in Proceedings of the International Association for Shell and Spatial Structures (IASS) symposium 2018: Creativity in Structural Design, MIT, Boston, USA, July 16-20, 2018.

Gabriele S., Adriaenssens S., Varano V., Tomasello G., Alfonsi D., Modal Funicularity of form-found shell structures, in Proceedings of the International Association for Shell and Spatial Structures (IASS) symposium 2017: Interfaces, Hamburg, Germany, September 25-28, 2017.

Adriaenssens S., Gabriele S., Varano V., Tomasello G., Magrone P., Revisiting the form finding techniques of Sergio Musmeci: the bridge over the Basento river, in ICSEA2016 Portugal, Structures and Architecture Beyond their limits, Taylor&Francis Group, London, 2016.

Other activities

Spring 2016 Teaching Assistant - Bridges: theory and design
&2017 MSc Civil Engineering, Roma TRE University

Fall 2016 Teaching Assistant - Structural Mechanics
&2017 BSc Architecture, Roma TRE University

Employment

June 2012 – 2015 Structural Engineer – Pell Frischmann, London

Aug 2015 – Dec 2015 Contract Engineer
Jan 2014 – Aug 2015 Engineer
Oct 2012 – Dec 2013 Graduate Engineer
June – Oct 2012 Intern

2012-2015

**Blavatnik – School of Government, Oxford**

Client Oxford University
 Architect Herzog & de Meuron
 Contractor Laing o'Rourke
 Value £50m

Role: Project engineer & assistant project director



This exposed concrete frame building is the home of the first School of Government in Europe. I was involved in this project since the concept phase. The complex geometry required close collaboration between architects, engineers and then contractor to guarantee structural efficiency, quality and buildability of what is now a landmark for the city of Oxford. I attended design, coordination and client meetings. During the construction phase I was on site every week to liaise with the contractor and inspect the structure. I was seconded to LOR during the construction of the PT fourth floor in order to gain additional site experience.

**Awards:**

Shortlisted for the 2016 RIBA Stirling Prize
 Structural Awards 2016 - Award for Education or Healthcare Structures
 The Concrete Society Awards 2016 - Highly commended
 Institution of Civil Engineers (ICE) - Best Use of Civil Engineering in a Building Project in South East England
 RIBA National Award 2016
 RIBA South Client of the Year 2016
 RIBA South Award 2016
 Oxford Preservation Trust Award 2016 - New Building category
 BREEAM Excellent; with A Rated Energy Performance

2015

**80 Fenchurch Street, London**

Client Marick Real Estate
 Architect TP Bennett & Hilson Moran
 Value £100m

This office scheme consists in a 15-storey building with two levels of basement. A 6-storey RC frame building with a double basement originally covers two thirds of the site. A composite-steel solution has been adopted for the new structure. I was involved in the initial design of the sub and superstructure coordinating with the architect and the design team.

2015

**Said Business School - Osney Power Station, Oxford**

Client Oxford University
 Architect John McAslan + Partners
 Value -

Pell Frischmann was invited to tender for the renovation of the Osney Power Station in order to provide the Said Business School with a new centre for short education programme. The space will provide teaching spaces, accommodations and facilities to the students. I was involved in the desk study drafting and initial site inspection.

2014-2015

**St Cross College, Oxford**

Client Oxford University
 Architect Niall McLaughlin
 Value £20m

This 3-storey plus basement building accommodates students of the St Cross college, lecture theatre, library and seminar rooms. It consists of a RC concrete frame and a precast façade. I was involved in design, coordination and client meetings, site inspection during the initial construction phase.

2014

**Centre Point, London**

Client Alma Cantar
 Architect Rick Mather and Conran
 Value £110m

Centre Point is a mixed-use Grade II listed landmark comprising a 33-storey commercial tower and a low rise building. PF was the original structural design engineers in 1966. A major refurbishment and redevelopment of the entire complex has been undertaken and I was part of the team working on element design and calculation.

2013-2014



Renaissance LifeCare Battersea, London

Client Renaissance Lifecare
 Architect Powell Dobson
 Value £30m

PF have been appointed to support Renaissance LifeCare in delivering a community for retired and senior residents, consisting of an 11-storey and an 8-storey tower alongside Battersea Park. I worked on modelling and design of the concrete structure.

2012-2014



Kingsgate House & Zig Zag Building, London

Client Land Securities
 Architect Lynch
 Value £150m

This mixed-use scheme comprises office, retail and residential components. It consists in two 14-storey post tension buildings constructed above a 5-storey basement next to the circle line. I worked on the west building providing FE structural models, calculations and design. I worked on west and east buildings for design checks during the construction phase.

2012



The Quill, London

Client Investream
 Architect SPPARC
 Value £42m

This 31-storey building, situated near London Bridge accommodates 550 students of the King's college. It consists of two buildings connected by three link bridges. A feasibility study has been provided performing a modal analysis and focusing on the structural performance under wind load.

2012



62 Buckingham Gate, London

Client Land Securities
 Architect Pelli Clarke Pelli and Swanke Hayden & Connell
 Value £100m

This 13-storey building was the conceptual vision of Pelli Clark Pelli Architects and executive architects SHCA. Pell Frischmann realized the building using 13m spanning post tension floor plates with non-vertical columns responding to the facade treatment. I worked on this project during the construction phase.

Dec 2011- May 2012

Structural Engineer – Studio 3 Engineering&Architecture, Rome



Palazzo Antonelli, L'Aquila - Italy

Palazzo Antonelli is an historic building dated XVIII century seriously damaged after the 2009 earthquake. The rehabilitation of the structure includes recurring visit and surveys on site inside the propped building and a redesign of the entire structure using carbon fiber.

Jan – June 2011

Intern – E.d.In, Rome



Collaborating in the design and verifications of a steel lock-gate on the Panama Canal under static and dynamic loads and considering the structure-fluid interaction; collaborating in the designing of tests to verify constructed bridges.

Education

2011 MSc Civil Engineering – Roma TRE University

First-class honours [110/110 cum Laude]

Graduation thesis: "Analysis of stress-ribbon bridges in stainless steel"

Inspired from a new idea of stress-ribbon bridge presented for the project of a new structure in Rome.

Advisor Prof. Fabio Brancialeoni

Specialized in structural engineering. Main subjects covered: Dynamics, earthquake engineering, computational analysis methods, bridges, safety and rehabilitation of structures.

2009 Second-year student at Ecole Nationale des Ponts et Chaussées [ENPC], Paris

Department of "Civil Engineering and Construction"

2008 BSc Civil Engineering – Roma TRE University

First-class honours [110/110]

Thesis: "Finite element analysis of concrete grid slab bridge decks"

Main subjects covered: Structural mechanics, materials, fluid mechanics and hydraulics engineering, coastal engineering, transports, environmental engineering, project management, environmental law and economics.

Intern at Materials and structures laboratory of Roma TRE University - Department of Civil Engineering [January - May 2008]**2005 Secondary school specializing in classical studies [100/100]***Skills*

<i>Languages</i>	Italian	Native speaker
	English	Fluent written and spoken [May 2012 TOEFL iBT: 97/120]
	French	Fluent written and spoken
<i>Computer</i>	OS	Mac and Windows
	Microsoft Office	Word, Excel, Power point
	FEM structure	Etabs, Sap2000, SCIA, RAM Concept, Comsol Multiphysics, Edilus, Adina
	geotechnics	Plaxis
	numerical	Matlab, Wolfram Mathematica
		Autocad, Revit, Rhino

Other activities, awards, certifications and organizations

<i>Organizations</i>	International Association for Shell and Spatial structures (IASS) member
2018	IABSE Future of Design, New York Conference Organizer
2015	IABSE Future of Design, Imperial College, London Conference Organizer
2015	Construction Youth Trust Young Achievers Scheme Awards Design Category Finalist
2014	Construction Skills Certification Scheme (CSCS) Exam Health safety and environment test for managers and professionals
2014	Nominated by Pell Frischmann at the Young Structural Engineering Professional Award
2014	Enginuity - Global business management competition for the construction industry [Team leader]
2012	Chartered Civil Engineer title in Italy

Interests

Architecture, art, travel, swimming, tennis.

Recommenders

Dr. Stefano Gabriele	Assistant Professor at Roma TRE University sgabriele@uniroma3.it
Mr. Ross Harvey	Technical Director at WSP (before Associate at Pell Frischmann) ross.harvey@wspgroup.com
Mr. Eddie Jump	Technical Director at Pell Frischmann ejump@pellfrischmann.com
Prof. Fabio Brancaleoni	Full Professor at Roma TRE University fbrancaleoni@uniroma3.it

Roma, 9/11/2018
