



UNIVERSITÀ DEGLI STUDI  
DI GENOVA

# AECOM

*Course of Nonlinear Analysis of Structures*  
*Prof. Roberta Massabo'*  
*Venerdì 7 giugno, ore 11:15*  
*Aula A7, Scuola Politecnica, Villa Cambiaso*

## Programme of the Event

11:15-11:45 – Structural Assessment of Historical Bridges in the UK  
Davide Solari, Engineer, AECOM

11:45-12:15 – Careers Guidance and Advice on Interviews, CVs and Application Form writing  
Neil Shaw, Senior Recruiter, AECOM

12:15-13:15 – Group chats

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## Structural Assessment of Historical Bridges in the UK



The railway infrastructure of the UK developed rapidly during the 19<sup>th</sup> Century. Thousands of bridges were built throughout the country and they are still in use nowadays. Infrastructure management represents one of the challenges of our ages and has to solve issues such as Code for Design vs Code for Existing Structures, Collection of Data vs Inspection, Maintenance vs Replacement. Network Rail, the owner of the UK railway infrastructure, developed their own procedures for structural assessment and safety evaluation of bridges. As part of a ten years project, AECOM delivered the structural assessment of the most of critical bridges of the railway, developing a database of skills, knowledge and innovative methods which represent an absolute excellence in the industry. In particular, the implementation of non-linearities and global finite element models predicts the “real” structure failure limit, in comparison to achievement of modern Ultimate Limit States concept.

## About AECOM

AECOM is a multinational engineering firm that provides design, consulting, construction, and management services to a wide range of clients in more than 150 countries. AECOM has approximately 87,000 employees and currently works in the Americas, Europe, Asia, Middle East, Africa, and Australia/New Zealand. AECOM provides professional technical and management support services to both public and private sector clients. Services relate to areas including Archaeology, Architecture & Design, Asset Management, Construction, Cost Management, Decommissioning & Closure, Economics, Engineering, Environmental Services, IT & Cyber Security, Operations & Maintenance, Planning & Consulting, Program, Risk Management & Resilience and Technical Services.

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## Neil Shaw, Senior Recruiter

Neil is a Senior Recruiter for AECOM joining the company in 2011. His overall experience in recruitment for Civil Engineering firms consists of 20 years. He is specialised in the recruitment of Graduates, establishing long term working relationships with British and Continental European universities across the years, in particular Spain Portugal and Italy. During his career Neil has developed recruitment strategies to ensure alignment with overall business goals of the companies or simply networking with like-minded professionals. Thanks to his expertise in graduate recruitment he has given various presentations and talks regarding Graduate Career Advice and CVs during University Career Fairs, University Open Days and more generally conferences.



## Davide Solari, Engineer

Davide graduated in April 2015 at the University of Genoa. He joined AECOM Newcastle office in June 2016, becoming a member of the Bridges & Structures Team which comprises 80 engineers from different parts of the world. He has worked on the safety evaluation of over 30 bridges part of the UK railway system, leading site inspections and reporting, delivering structural calculations especially in finite element modelling and non-linear analyses. In September 2018 he moved to the AECOM London office to join other projects. Since April he has worked on the roof design of Hong Kong Airport new terminal, part of the Hong Kong International Airport Master Plan 2030.



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