

February 26th – March 1st 2024,  
Almo Collegio Borromeo, Pavia

Short course on

## ANALYTICAL AND COMPUTATIONAL MODELING OF THE SEISMIC RESPONSE OF MASONRY STRUCTURES

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The course will start from the description of the dynamics of structures characterized by rocking mechanisms, highlighting the differences compared to typical elastic structures, illustrating the rocking equations of motion and how these can be integrated into computational modeling and applied to masonry structures. Discrete element modeling will then be presented and applied for the simulation of the response of masonry structures, highlighting its advantages and limitations.

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For information and registration, write to:  
[ingciv@unipv.it](mailto:ingciv@unipv.it)



### Prof. M.J. DeJong

**Matthew J. DeJong** is the Ray & Shirley Clough Presidential Chair in Structural Engineering at University of California Berkeley, PI and Co-Director of the NHERI SimCenter, and Co-Director of the UC Berkeley Center for Smart Infrastructure. He earned his BS from UC Davis and his MS and PhD from MIT. He served as a faculty member at Cambridge University (UK) for 9 years and now at UC Berkeley since 2018. At Cambridge, he served on the executive committee for the Cambridge Centre for Smart Infrastructure. He has authored more than 180 research publications on topics that include earthquake engineering, structural health monitoring, fiber optic sensing, and computational modeling of the seismic response of structures.