FEDERICO PICHI

PERSONAL INFORMATION

Born in Rome, Italy 23 February 1992

email	fpichi@sissa.it
website	http://people.sissa.it/~fpichi/
phone	+39 (347) 145 1948

POSITION

2016-Today   SISSA, Trieste (Italy)

Current Position

3nd year Ph.D. Student in Mathematical Analysis, Modelling and Applications
mathLab, Mathematics Area, SISSA, International School for Advanced Studies,
via Bonomea 265, 34136 Trieste, Italy
SISSA Siam Student Chapter vice-president

Research Interests

Reduced order models in computational structural mechanics.
Numerical analysis of bifurcating phenomena held by nonlinear equations.

Supervisor

Prof. Gianluigi Rozza

EDUCATION

2014-2016   'La Sapienza' University, Rome (Italy)

Master degree

Applied Mathemathics · Department of Mathematics
Thesis: *Reduced order methods for parametric Von Kármán equations*
Description: This thesis explored the Reduced Basis method for a nonlinear
system of structural equations and bifurcating phenomena that could arise.
Advisors: Prof. Maurizio FALCONE & Prof. Gianluigi ROZZA
Final Grading *110/110 cum laude*

2011-2014   'La Sapienza' University, Rome (Italy)

Bachelor degree

Mathemathics · Department of Mathematics
Thesis: *Disconituous differential equations in control theory*
Advisors: Prof. Corrado MASCIA
Final Grading *110/110 cum laude*

2006-2011   Liceo Scientifico Isacco Newton, Rome (Italy)

Secondary School Diploma

Scientific Diploma
Final Grading *100/100*

PUBLICATIONS

2018

Submitted

"Reduced basis approaches for parametrized bifurcation problems held by
nonlinear von Kármán equations"
Authors: F. PICHI, G. ROZZA.
In: arXiv

[1]

"Reduced Basis Approximation and A Posteriori Error Estimation: Applications
to Elasticity Problems in Several Parametric Settings"
Authors: D.B.P. HUYNH, F. PICHI and G. ROZZA
In: Numerical Methods for PDEs: State of the Art Techniques, Springer
International Publishing, Ch. 8, 203–247, 2018.

OTHER INFORMATION

Awards and Funding

MIT-Italy - FVG Project · ROM2S Reduced Order Methods at MIT and SISSA

2018 INDAM GNCS · Tecniche di riduzione di modello per le applicazioni mediche

2017 INDAM GNCS · Tecniche di riduzione computazionale e applicazioni

2016 INDAM GNCS · Tecniche di riduzione computazionale per le scienze applicate

SISSA · Master thesis fellowship for pre-graduate students

SAPIENZA UNIVERSITY · Excellence course for Master degree in Applied Mathematics 2014-2016

SAPIENZA UNIVERSITY · Excellence course for Bachelor degree in Mathematics 2011-2014

Conference and Workshop

2018 · CIME-EMS Summer School
The Mathematics of Mechanobiology
August 27-31, 2018, Cetraro, Italy

2018 · ICOSAHOM 2018 - talk
International Conference on Spectral and High Order Methods
July 09-13, 2018, Imperial College London, London, United Kingdom

2018 · MoRePaS 2018 - poster
Model Reduction of Parametrized Systems IV
April 10-13, 2018, Ecole Centrale de Nantes, Nantes, France

2017 · QUIET 2017
Quantification of Uncertainty: Improving Efficiency and Technology
July 18-21, 2017, SISSA, Trieste, Italy

2017 · FEF 2017
IACM - 19th International Conference on Finite Elements in Flow Problems
April 05-07, 2017, Sapienza University, Rome, Italy

2016 · EU-MORNET
Reduced Order Methods in Computational Fluid Dynamics: state of the art and perspectives
February 22-23, 2016, SISSA, Trieste, Italy

COMPUTER SKILLS

Basic

HTML, R, C, C++, FORTRAN

Advanced

MATLAB, FREEFEM++, PYTHON

November 27, 2018