Elisa Iacomini

Personal Data

DATE AND PLACE OF BIRTH: November 26, 1991, Tarquinia (VT), Italy

Address: Via A. Scarpa 16, 00161 Rome, Italy

HOME ADDRESS: Via F. Petrarca 5, 01019 Vetralla (VT), Italy

PHONE: +39 3493684468

EMAIL: elisa.iacomini@sbai.uniroma1.it

Webpage: www.sbai.uniroma1.it/~elisa.iacomini

EDUCATION

2016-2019 PhD in Mathematical Modeling for Engineering,

"La Sapienza" University,

Dipartimento di Scienze di Base e Applicate per l'Ingegneria (SBAI), Rome.

Supervisors: F. Camilli (SBAI), E. Cristiani (IAC-CNR)

RESEARCH TOPICS:

Numerical methods for hyperbolic problems

Traffic flow modeling Wasserstein distance

Sensitivity analysis for numerical methods

Optimal transport problem

July 2016 Master Degree in Applied Mathematics

FINAL MARK: 110/110 cum laude

Thesis Title: Un approccio numerico alla quantificazione dell'incertezza

per modelli di traffico veicolare su grandi reti

SUPERVISORS: M. Falcone, E. Cristiani (IAC-CNR)

OCTOBER 2013 Bachelor Degree in Mathematics

FINAL MARK: 108/110

Thesis Title: Alcuni metodi di ottimizzazione per problemi multiobiettivo

Supervisor: M. Falcone

July 2010 High school degree

FINAL MARK: 100/100

Liceo Scientifico "P. Ruffini", Viterbo, Italy

Publications

- [1] F. Camilli, R. De Maio, E. Iacomini, A Hopf-Lax formula for Hamilton-Jacobi equations with Caputo time derivative, preprint on arXiv:1803.09296.
- [2] M. Briani, E. Cristiani, E. Iacomini, Sensitivity analysis of the LWR model for traffic forecast on large networks using Wasserstein distance, Comm. in Math. Sci., 16 (2018), 123–144.

Speaker

Apr 17, 2018 Poster session

Title: Sensitivity analysis of the LWR model for traffic forecast on large

 $networks\ using\ Wasserstein\ distance$

Numerical Aspects of Hyperbolic Balance Laws and Related Problems,

Auditorium Santa Lucia, University of Ferrara.

Nov 14, 2017 Seminario di Modellistica Differenziale Numerica

Title: Sensitivity analysis of the LWR model for traffic forecast on large

networks using Wasserstein distance

Mathematics Department 'Guido Castelnuovo', La Sapienza University of Rome.

ACTIVITIES, SUMMER-SCHOOLS AND WORKSHOPS

School on Optimal Transport: Numerical methods and applications

May 7-11, 2018, Lake Como School of Advanced Studies (with financial support), Como.

NumAsp2018: Numerical Aspects of Hyperbolic Balance Laws and Related Problems

April 16-20, 2018, Università di Ferrara (with financial support), Ferrara.

Advanced Graphics for Scientific Data

Feb, 2018, Physics and Mathematics Department, Roma Tre University, Rome.

IperPV2017: XVII Italian Meeting on Hyperbolic Equations Sept 6-8, 2017, Pavia.

Summer School: Data-Driven Methods for Multi-Scale Physics and Complex Systems

July 24-28, 2017, Rome.

Introduction to Parallel Computing with MPI and OpenMPI

May 29-31, 2017, CINECA, Rome.

Summer School: Frontiers in Partial Differential Equations Analysis and Solvers May 22-25, 2017, (with financial support), Pavia.

School on Uncertainty Quantification for Hyperbolic Equations and Related Topics

April 24-28, 2017, GSSI (with financial support), L'Aquila.

Indam Workshop: Transport Modeling and Management: Vehicles and Crowds March 6-10, 2017, Rome, in the framework of the INdAM-CNR project MATHTECH.

Indam Workshop PDE Models for Multi-Agent Phenomena

Nov 28-Dec 3, 2016, Rome

Teaching

2017-2018 Tutor of Analisi I (SSD MAT/05)

Ingegneria Chimica, Sapienza Università di Roma.

Teacher: Prof. T. Leonori.

2017-2018 Tutor of Analisi I (SSD MAT/05)

Ingegneria Informatica, Sapienza Università di Roma.

Teacher: Prof. F. Camilli.

LANGUAGES

English: B2

French: Basic Knowledge (A1)

Computer Skills

PROGRAMMING LANGUAGE: C++, Matlab, FreeFEM.

OTHER KNOWLEDGE: IATEX, PowerPoint, Excel, Word, Paraview.