

Laura Aquilanti

PERSONAL DATA

CURRENT ADDRESS:

EMAIL: laura.aquilanti@sbai.uniroma1.it

WEBPAGE: <https://www.sbai.uniroma1.it/~laura.aquilanti/home.html>

CURRENT POSITION

NOV 2018-PRESENT

PhD in Mathematical Models for Engineering, Electromagnetics and Nanosciences

ISTITUTE: Sapienza University, Rome

DEPARTMENT: Basic and applied sciences for engineering (SBAI)

CURRICULUM: Mathematics for Engineering

SUPERVISOR: F. Camilli (SBAI)

RESEARCH TOPICS: PDEs analysis, Mean Field Games theory, Optimization

EDUCATION AND TRAINING

OCT 2015-DEC 2017

Master's degree in Mathematics and Applications LM-40

ISTITUTE: Camerino (Mc) University, Italy

STUDIES: optimal control theory, dynamic systems, nonlinear control theory, functional analysis and computational graphics.

Thesis: Reaction-diffusion models for population dynamics in the presence of a climate shift: asymptotic analysis and control.

Final grade: 110/110 cum summa laude

APR 2017-JUN 2017

Erasmus+ traineeship

Master thesis in reaction diffusion equations

ISTITUTE: EHESS, Paris, France

OCT 2012-OCT 2015

Bachelor's Degree in Mathematics and Applications L-35

ISTITUTE: Camerino (Mc) University, Italy

Thesis: Control theory for the stability of nonlinear systems and applications.

Final grade: 110/110 cum summa laude

EXPERIENCE

FEB 2020- MARCH 2020	Visiting Researcher ISTITUTE: University of Rennes 1 DEPARTMENT: I.R.M.A.R
OCT 2019-DEC 2019	Lecturer on Analysis I ISTITUTE: Sapienza University, Rome DEPARTMENT: Managment Engineering LM-31
JUL-NOV 2018	Scholarship “Data-driven predictive models for the life cycle of Li-Ion batteries” ISTITUTE: Camerino (Mc) University and ENEA (National Agency for new technologies, energy and sustainable development) (Rm)
MAY 2018	Substitute Teacher PERIOD: 14/05/18-26/05/18, (18 hours per week) SCHOOL: Liceo Classico F. Stelluti, Fabriano (An) SUBJECTS: Mathematics and Physics (A-27)
NOV 2017-MAY 2018	Lecturer on basic Mathematics ISTITUTE: Camerino (Mc) University, Italy DEPARTMENT: Chemical and Pharmaceutical Technologies LM-13

PUBLICATIONS

- [1] L. Aquilanti, S. Cacace, F. Camilli, R. De Maio
A Mean Field Games Approach to Cluster Analysis, Applied Mathematics and Optimization (2020)
<https://doi.org/10.1007/s00245-019-09646-2>

- [2] L. Aquilanti, S. Cacace, F. Camilli, R. De Maio.
A Mean Field Games model for finite mixtures of Bernoulli distributions
submitted, <https://arxiv.org/pdf/2004.08119.pdf>

SEMINARS

- 7 MAY 2020 **Séminaire EDP de l'IRMAR**
Title: *Finite Mixture models for soft clustering via multi population Mean Field Games system* (online seminar)
Istitute: University of Rennes 1, I.R.M.A.R

ACTIVITIES

Conference on Mean Field Games and related topics-5

Septembr, 9-13 2019, Levico (TN)

Summer School on Mean Field Games

June 10-14, 2019, CIME Foundation (*with partial financial support*), Cetraro (CS).

Winter school on “Stochastic PDEs and Mean-Field Games”

January 14-16, 2019, University of Bologna

Mfgdayparis2018: Journées project ANR: “Mean Field Games”

December, 17-18 2018, Paris.

LANGUAGES

ITALIAN: native

ENGLISH: fluent, *First Certificate in English (FCE), Level B2*

FRENCH: basic knowledge

COMPUTER SKILLS

PROGRAMMING LANGUAGE: C, Matlab (basic)

OTHER KNOWLEDGE: \LaTeX , PowerPoint, Excel, Word,

Roma, May 19, 2020

Laura Aquilanti