Giulia Luise
Curriculum Vitae

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Very Short Intro: I am a second year PhD student in Machine Learning at UCL in London. I like intersections of machine learning and optimal transport theory and so far I have focused on (regularized) OT distances as loss functions in supervised learning settings.

Education

Sept. 2017-present	**PhD Student in Machine Learning**, *Computer Science Department, University College London*, UK.
	Research topic: interplay of Optimal Transport and Machine Learning.
	Advisors: Prof. Massimiliano Pontil, Dr. Carlo Ciliberto
Oct. 2014-Sept. 2016	**Master of Science Degree in Mathematics**, *University of Pavia*, Italy.
	Dissertation Title: Contraction and regularizing effects for Markov semigroups in Hellinger and Hellinger-Kantorovich spaces
	Supervisor: Prof. Giuseppe Savaré
	Grade: 110/110 cum laude
Mar. 2015-Aug. 2015	**Exchange Program**, *Humboldt Universität zu Berlin*, Germany.
	Courses: Algebraische Geometrie I, Differentialgeometrie II, Partielle Differentialgleichungen (PDEs).
2015, May 20	**First Level Diploma**, *Institute for Advanced Studies (IUSS)*, Pavia, Italy.
	Dissertation title: Introduction to multidimensional Sobolev Spaces
	Supervisors: Prof. Pierluigi Colli, Prof. Franco Brezzi
Oct. 2011-Sept. 2014	**Bachelor of Science Degree in Mathematics**, *University of Pavia*, Italy.
	Dissertation Title: Locally free sheaves on the projective line
	Supervisor: Prof. Maurizio Cornalba
	Grade: 110/110 cum laude
Oct. 2011-July 2016	**Alumna**, *Institute for Advanced Studies (IUSS)*, Pavia, Italy.
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Publications

NeurIPS 2018	**Differential Properties of Sinkhorn Approximations for Learning with Wasserstein Loss**, *G. Luise, A. Rudi, M. Pontil, C. Ciliberto*.
In preparation, around 25 pages	**Contraction and Regularizing Properties of Heat Flows in Metric Measure Spaces**, *G. Luise, G. Savare'*.

Talks and Presentations

June 2018	**Machine Learning Summer School - Buenos Aires**, *Poster: Optimal Transport and Structured Prediction*.

April 2017	**Invited speaker at Workshop on Optimal Transport and PDEs in Applied Sciences - L'Aquila, Italy**.

Teaching

2018-2019	**TA for COMP G13**, Advanced Method in Machine Learning, UCL.

Awards, Grants and Scholarships

2018	**Fondazione Grazioli prize**, Prize for Master dissertation.
2017	**UBI Banca Prize**, Best Graduate Student in Mathematics at University of Pavia.
2016	**Confindustria "Premio al merito scolastico"** .
2011-2016	**Five-year IUSS Scholarship**.

Languages and Coding skills

Italian	Native
English	C1 level, IELTS band 8
Spanish	Fluent

Programming skills: Python, Matlab

Extracurricular Activity and Hobbies

2002-2011	**Piano Studies at Conservatory of Music**.
	I have attended piano lessons for more than ten years; I took the following exams as external candidate:
	○ Music theory and solfeggio exam, at Conservatory'G.Verdi' (Alessandria)
	○ Fifth year degree, History of Music, Complementary Harmony, Eight year degree, at Conservatory 'A. Boito' (Parma).

Interest and hobby: travelling, horse-riding