

Giulia Luise

+447397233514 • giulia.luise92@gmail.com
<https://giulslu.github.io/>

Work Experience

Imperial College London

Postdoctoral Fellow at Department of Computing

Nov 2020 - present

London, UK

Education

University College London

○ PhD student in Machine Learning

Sep. 2017 - Jan 2021

London, UK

- Research Topics: interplay of Optimal Transport and Machine Learning

- Advisors: Massimiliano Pontil and Carlo Ciliberto

- From 2016 to 2017 I was a PhD student in Mathematics, from September 2017 I moved to Computer Science Department

ENSAE, CREST

○ PhD intern in Machine Learning, with Marco Cuturi and Gabriel Peyre'

Apr. 2019 - Jul. 2019

Paris, France

University of Pavia, exchange at Humboldt University Berlin

○ Master of Science in Mathematics

Sep. 2014 - Sep. 2016

Pavia, Italy

- Final grade: 110/110 cum laude, GPA: 30/30

University of Pavia

○ Bachelor of Science in Mathematics

Sep. 2011 - Sep. 2014

Pavia, Italy

- Final grade: 110/110 cum laude, GPA: 29.5/30

Publications

1. S. Cohen, **G. Luise**, A. Terenin, A. Brandon, M. Deisenroth, *Aligning Time Series on Incomparable Spaces*, submitted AISTATS 2021
2. **G. Luise**, M. Pontil, C. Ciliberto, *Generalization Properties of Optimal Transport GANs with Latent Distribution Learning*, *arXiv:2007.14641* 2020
3. A. Salim, A. Korba, **G. Luise**, *Wasserstein Proximal Gradient*, NeurIPS 2020
4. L.a Oneto, M. Donini, **G. Luise**, C. Ciliberto, A. Maurer and M. Pontil, *Exploiting MMD and Sinkhorn Divergences for Learning Fair and Transferable Representations*, NeurIPS 2020
5. A. Korba, A. Salim, M. Arbel, **G. Luise**, A. Gretton, *A Non-Asymptotic Analysis for Stein Variational Gradient Descent*, NeurIPS 2020
6. **G. Luise**, S. Salzo, M. Pontil, C. Ciliberto, *Sinkhorn Barycenters with Free Support via Frank Wolfe Algorithm*, NeurIPS 2019 (spotlight)

7. **G. Luise**, G. Savare', *Contraction and Regularizing Properties of Heat Flows in Metric Measure Spaces*, *DCDS, Ser. S*, 2019
8. **G. Luise**, D. Stamos, M. Pontil, C. Ciliberto, *Leveraging Low-Rank Relations Between Surrogate Tasks in Structured Prediction*, *ICML 2019*
9. **G. Luise**, A. Rudi, M. Pontil, C. Ciliberto, *Differential Properties of Sinkhorn Approximations for Learning with Wasserstein Loss*, *NeurIPS 2018*

Teaching, Service and Volunteering

I am a mentor for *Lead the Future*, a non-profit organization to help Italian students in STEM disciplines to achieve their potential.

Volunteer for:

WiML 2020: I volunteered in the sponsor booth section

Notetaker for disabled students at UCL, 2018

Teaching Assistant for:

COMP 0083, COMP G13. Advanced Method in Machine Learning, UCL, 2018-2020

Reviewer for

AISTATS 2020, ICML 2020, NeurIPS 2020, JMLR 2019-2021

Selection of Talks and Presentations

- (Invited) MalGA Seminars, March 2021, Genova (virtual)
- (Invited) DeepMind CSML Seminar Series, November 2019, London
- (Invited) Imperial College @ NeurIPS, November 2019, London
- (Invited) MAGA Days, Paris, November 2019
- International Conference of Machine Learning, 2019
- (Invited) Workshop on Optimal Transport and PDEs in Applied Sciences, 2017 L'Aquila, Italy

Awards, Grants, Scholarship

- NeurIPS 2018, 2019, ICML 2019 travel awards
- Machine Learning Summer School 2018, Buenos Aires, travel award
- Graduate Research Fellowship: highly competitive, fully funded PhD scholarship
- Fondazione Grazioli prize: Prize for Best Graduate student in Mathematics
- UBI Banca Prize: Best Graduate Student in Mathematics at University of Pavia

Skills

Programming: Python, PyTorch and Tensorflow frameworks

Languages: Italian (native), English (C1 level, IELTS band 8), Spanish (fluent).