Alberto Parravicini – Curriculum Vitae – 2019

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Work Experience

Oracle Labs - Zurich & Milan - Research Assistant, Ph.D Student Collaborator
 Oct 2019 Created the first Named Entity Disambiguation algorithm that leverages vertex embeddings to deliver up to 90% accuracy and 30 disambiguations per second. Developed a proof-of-concept translator from Natural Language to Graph Query Languages. Improved the GPU support of GraalVM using LLVM transformations of CUDA code.

Jan 2018 - Unicredit - Milan - Research & Development InternJun 2018 - Developed a C library for Entropy Measures on high-frequency financial data,

and analysed how to use them as volatility proxies.

Jul 2017 - AXA - Brussels - Data Science Intern

Sep 2017 Developed a deep-learning OCR (Optical Character Recognition) pipeline in Python to analyse insurance claims documents and perform fraud detection.

Education

2018 - Doctor of Philosophy in Computer Science and Engineering

Present at **Politecnico di Milano**.

Researching high-performance heterogeneous architectures applied to graph analytics. Supervising 5+ students in my research group. Lecturer and TA of *Software Engineering* and *High-Performance Graph Analytics*.

2015 - Master of Science Degree in Computer Science and Engineering
 2018 at Politecnico di Milano. Graduation Mark: 110/110, Cum Laude

2017 ATHENS: Introduction to the Finite Elements Method at **TU Delft**, Netherlands

2016 IDEA League Summer School: Responsible Artificial Intelligence at TU Delft, Netherlands

2016 - Master of Science in Computer Science and Engineering
2017 at Ecole Polytechnique de Bruxelles. (Exchange Student)

2012 - Bachelor of Science Degree in Engineering of Computing Systems

2015 at Politecnico di Milano. Graduation Mark: 106/110

Selected Publications

- **A. Parravicini**, R. Patra, D. B. Bartolini, M. D. Santambrogio, "Fast and Accurate Entity Linking via Graph Embedding", 2019 GRADES-NDA.
- L. Stornaiuolo, **A. Parravicini**, G. Durelli and M. D. Santambrogio, "Exploiting FPGAs from Higher Level Languages A Signal Analysis Case Study", 2017 IPDPS Workshops.

Personal interests

- Scientific interests High-performance computing, graph analytics, computational finance
- Other interests Macro photography, hot enamel handicraft