Lorenzo Beretta

Webpage: lorenzo2beretta.github.io
E-mail: lorenzo2beretta@gmail.com
DBLP: dblp.org/pid/34/8239-1.html

EDUCATION

Ph.D. Basic Algorithm Research Copenhagen (BARC) Supervisors: Mikkel Thorup & Mikkel Abrahamsen.	2020 - 2023
Scuola Normale Superiore (Honor Class) I took 115 ECTS (~ 2 years workload) of additional math and physics courses.	2015 - 2020
M.S. Computer Science, University of Pisa Grade 110/110 cum Laude.	2018 - 2020
B.S. Mathematics, University of Pisa Grade 110/110 cum Laude.	2015 - 2018

RESEARCH PAPERS

In theoretical computer science, authors are sorted in alphabetical order.

- Approximate Earth Mover's Distance in Truly-Subquadratic Time Lorenzo Beretta, Aviad Rubinstein STOC 2024.
- Multi-Swap k-Means++ Lorenzo Beretta, Vincent Cohen-Addad, Silvio Lattanzi, Nikos Parotsidis NeurIPS 2023.
- Locally Uniform Hashing Ioana Bercea, Lorenzo Beretta, Jonas Klausen, Jakob Bæk Tejs Houen, Mikkel Thorup FOCS 2023.
- 4. Online Sorting and Translational Packing of Convex Polygons Anders Aamand, Mikkel Abrahamsen, Lorenzo Beretta, Linda Kleist SODA 2023.
- Better Sum Estimation via Weighted Sampling Lorenzo Beretta, Jakub Tetek
 SODA 2022. Best Student Paper Award.
 Invited to HALG 2022 and TALG special issue.
- Online Packing to Minimize Area or Perimeter Mikkel Abrahamsen, Lorenzo Beretta SoCG 2021.
- An Optimal Algorithm to Find Champions of Tournament Graphs Lorenzo Beretta, Franco Maria Nardini, Roberto Trani, Rossano Venturini **TKDE** (IEEE Transactions on Knowledge and Data Engineering) (A preliminary version appeared at SPIRE 2019).

FELLOWSHIPS AND SCHOLARSHIPS

EU TALENT Doctoral Fellowship Grant

Horizon 2020 program, Marie Skłodowska-Curie grant agreement No 801199.

Undergraduate Full Scholarship

Admitted to honor classes in math (Scuola Normale Superiore) and engineering (Scuola Superiore Sant'Anna). Scuola Normale Superiore provided me with a full scholarship which covered boarding and tuition throughout my bachelor and master in Pisa.

PROFESSIONAL SERVICE

Conference Sub-Review

ESA (2022, 2023, 2024), ITCS (2024), SOSA (2024), FOCS (2023), SWAT(2024)

INTERNSHIPS AND TEACHING

Student Researcher, Google Research As a research intern I worked on clustering problems both in theory and practice.	2022
Teaching Assistant, Copenhagen University I served twice as a T.A. in the "Randomized Algorithm" course at Copenhagen U	2021 - 2022 Iniversity.
Quantitative Investment Internship, Société Générale, London Ten weeks internship spent working on the "optimal intraday execution" problem.	2019
High School Teacher Teaching additional math lectures at a local high school in Pisa.	2018
MISCELLANEA	
ACM ICPC Programming Contest: SWERC Representing Scuola Normale Superiore, Bronze Medal, 10th place.	2018
Scout Leader Volunteer Leading a troop of about 30 teenagers.	2017 - 2020
National Mathematics and Physics Olympiads	2015

Silver medal in Mathematics and Bronze medal in Physics.

2020 - 2023

2015 - 2020