IRENE DOVICHI

COMPUTER SCIENCE STUDENT

EDUCATION

University of Pisa   *Pisa, IT*
MSc IN COMPUTER SCIENCE (AI CURRICULUM)   *Feb. 2023 - Present*

University of Pisa   *Pisa, IT*
BSc IN MATHEMATICS   *Sept. 2018 - Feb. 2023*
- Graduated with 110/110 cum laude.

Liceo Scientifico A. Vallisneri   *Lucca, IT*
HIGH SCHOOL SCIENTIFIC DIPLOMA   *2013 - 2018*
- Passed with 100/100

WORK EXPERIENCE

Stand assistant for Star Comics at Lucca Comics & Games 2022   *Lucca, IT*

UNIVERSITY PROJECTS

Solving a Convex Quadratic Programming Problem   *University of Pisa*
PROJECT FOR A MSc EXAM   *Apr. 2023 - July 2023*
- Ad hoc modeling of the Frank-Wolfe algorithm for the convex quadratic non-separable knapsack problem and convergence analysis.
- Implementation in MATLAB and discussion of the results.

Solution Methodologies for Integer Linear Programming Problems   *University of Pisa*
BACHELOR'S THESIS   *Oct. 2022 - Feb. 2023*
- Theoretical presentation of the Lagrangian Relaxation and the Subgradient method, and modeling for particular network optimization problems.
- Theoretical presentation of the Dantzig-Wolfe Decomposition method.
- Application of the presented methods to the Minimum Cost Multicommodity Flow problem.

SKILLS

Programming   MATLAB, LaTex, C

LANGUAGES

Italian   Native proficiency
English   Professional proficiency
French   Elementary proficiency