Simone Fioravanti

PROFESSIONAL EXPERIENCE

Freeda Media   Milan, Italy
Data Scientist   08/2018 - 09/2019
- Performed quantitative marketing research, as a member of the Insights and Distribution section of the Marketing team

Indigo AI   Milan, Italy
AI developer (NLP)   11/2017 - 07/2018
- Participated in different R&D projects in NLP related to chatbots for the Italian language
- Developed models for Spell Checking, Named Entity Recognition and Entity Extraction via Knowledge Graphs

Banca d'Italia (Applied Research Team)   Rome, Italy
Trainee (NLP)   10/2016 - 04/2017
- Participated in a project aimed at investigating Machine and Deep Learning techniques for Text Classification of financial/legal texts in Italian

RESEARCH AND TEACHING EXPERIENCE

Università degli Studi di Roma La Sapienza   Rome, Italy
PostDoc   Oct 2024-Present

Università degli Studi di Roma La Sapienza   Rome, Italy
Tutor for the course of Algorithm Design (M. Sc. Computer Engineering)   fall 2024-2025

Gran Sasso Science Institute (GSSI)   L'Aquila, Italy
Ph.D. researcher in Computer Science   11/2019-02/2024
- I conducted research on topics at the intersection of game theory and statistical learning. In particular I worked first on Multi-Agent Reinforcement Learning and then focused on the PAC framework applied to game-theoretic solution concepts.
- In the period April/ June 2023 I visited Technion (the Israel Institute of Technology), hosted by prof. Shay Moran and his team. Our ongoing collaboration regards topics in statistical learning and differential privacy.

Università degli Studi di Roma Tor Vergata   Rome, Italy
Tutor for the course of Discrete Mathematics (B. Sc. Computer Science)   fall 2014-2015

EDUCATION

Gran Sasso Science Institute (GSSI)   L'Aquila, Italy
Ph.D. in Computer Science   02/2024
- Dissertation: "Learning in Game-Theoretic Settings: An Algorithmic Dual Perspective"
- Supervisor: Michele Flammini
- Attended the Lipari School Computational Complex and Social Systems, July 2022
- Represented the CS students in the Commissione Paritetica for 3 years

Università degli Studi di Roma Tor Vergata   Rome, Italy
M. Sc. in Mathematics; final grade 110/110   05/2016

- Thesis: "Local Coalitions in Non-Cooperative Network Games" supervised by Luciano Gualà
- Relevant Coursework: Machine Learning; Dynamical Systems; Quantum Mechanics; Logic; Representation Theory; Numerical Analysis
- Awarded the scholarship for deserving students in the academic year 2015-2016
- Attended the European Summer School in Modelling, Analysis and Simulation Crime and Image Processing, Oxford UK, July 2016

Sorbonne Université (formerly UPMC)   Paris, France
Erasmus exchange (Mathematics)   spring semester 2013/2014
- Coursework: Game theory and Optimization; Convex Analysis; Combinatorial Optimization

Università degli Studi di Roma Tor Vergata   Rome, Italy
B. Sc. in Mathematics; final grade 103/110   09/2013
- Awarded the scholarship for deserving new students of the Faculty of Science and the Erasmus Scholarship

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PUBLICATIONS and PREPRINTS

The Panel Complexity of Sortition: Is 12 Angry Men Enough?   arXiv (preprint) 2025
J Brustle, S Fioravanti, T Ponitka, J Vollen

Ramsey Theorems for Trees and a General 'Private Learning Implies Online Learning' Theorem   FOCS 2024
S Fioravanti, S Hanneke, H Schefler, S Moran, I Tsubari

ε-Fractional Core-Stability in Hedonic Games   NeurIPS 2023
S Fioravanti, M Flammini, B Kodric, G Varricchio

PAC learning and stabilizing Hedonic Games: towards a unifying approach   AAAI 2023
S Fioravanti, M Flammini, B Kodric, G Varricchio

Newton-based Policy Search for Networked Multi-agent Reinforcement Learning   CDC 2022
G Manganini, S Fioravanti, G Ramponi

The Evolutionary Dynamics of Soft-Max Policy Gradient in Multi-Agent Setting   AAMAS 2022
M Bernasconi, F Cacciamani, S Fioravanti, N Gatti, F Trovò

Exploiting opponents under utility constraints in sequential games   NeurIPS 2021
M Bernasconi-de-Luca, F Cacciamani, S Fioravanti, N Gatti, A Marchesi, F Trovò

Coalition Resilient Outcomes in Max k-Cut Games   SOFSEM 2019
R Carosi, S Fioravanti, L Gualà, G Monaco

ACADEMIC SERVICE

PC Member NeurIPS 2025, AAAI 2024-2025, WWW 2026   **(Sub)Reviewer** SODA 2026, FUN 2024, ICWS 2024, AAMAS 2023-2024, CDC 2023, ECAI 2023, ICTCS 2023, TPDP 2023, WINE 2022-2023, IJCAI 2021, SAGT 2021, Intelligenza Artificiale