

Alessia Galdeman

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EDUCATION

UNIVERSITY OF MILAN

MS IN COMPUTER SCIENCE April 2021 | 110 cum laude BS IN COMPUTER SCIENCE FOR DIGITAL COMMUNICATION December 2018 | 102/110

UNIVERSITY OF CHICAGO

STUDENT SUMMER RESEARCH FELLOWSHIP PROGRAM July-August 2019| Chicago, IL

LINKS

Twitter: **@AlessiaGaldeman** LinkedIn: **Alessia Galdeman** Scholar: **Alessia Galdeman**

SKILLS

INTERESTS

Data and Network Analysis Big data and complex systems Information Management Computational Social Science Data Visualization Text Mining Machine learning

HARD SKILLS

Data and network analysis: NetworkX • Networkit • Igraph • Gephi • Mongo • statsmodel Matplotlib • Keras • Tensorflow Scikit-learn • Presentation tools Spreadsheets tools

Database:

PostgreSQL • MySQL • MongoDB Framework for web applications: Bootstrap • Phonegap

PROGRAMMING

Advanced in: Python • LateX Medium level in: HTML/CSS/Javascript • XML • Java • PHP • R

SOFT SKILLS

Time Management Problem Solving Adaptability Leadership

CURRENT POSITION

PHD STUDENT | UNIVERSITY OF MILAN 1 October 2021 - present | CONNETS Lab - Computer Science Department

Supervisors: Prof. Sabrina Gaito, Dr. Matteo Zignani I'm currently a 3rd-year Phd Student at CONNETS Lab, where I supervise the thesis work of both bachelor and master students in the field of complex networks. I also organize and lead weekly meetings on these topics. I am an assistant in courses on network science.

EXPERIENCE

RESEARCH FELLOW | UNIVERSITY OF MILAN June 2021 - October 2021 | Computer Science Department Research grant winner for project VASARI

PHD VISITOR | IT UNIVERSITY OF COPENHAGEN

April 2023 - July 2023 | NERDS Lab - Computer Science Department Supervisor: Prof. Luca Maria Aiello I worked on the COllective COordination through ONline Social media (COCOONS) project, supervised by Prof. Luca Maria Aiello at NERDS Lab.

TEACHING ASSISTANT | UNIVERSITY OF MILAN

February 2023 - June 2024 | Computer Science Department Lab for Social Media Mining course of the bachelor degree in Computer Science for Digital Communication

September 2022 - December 2023 | Economics, Management, and Quantitative Methods Department

Lab for Social Network Analysis course of the master degree in Data Science and Economics

TUTOR | UNIVERSITY OF MILAN

May 2019 - February 2021 | Computer Science Department Tutors of a Basic Computer Science course for several bachelor degrees.

TALKS AND INVITED TALKS

2021-2023	Talk at the IEEE International Conference on
	Data Science and Advanced Analytics (DSAA 2021, 2022, 2023)
2022,2023	Talk at the International Conference on
	Complex Networks and their Application (2022, 2023)
2022, 2024	Talk at International School and Conference
	on Network Science (NetSciX 2022, 2024)
May 2022	Talk at Complex Networks: Theory, Methods,
	and Applications School
Oct 2022	Talks at Conference on Complex System (CCS)
Nov 2023	Invited Tutorial at the 16th International Conference on Advances
	in Social Networks Analysis and Mining (ASONAM 2023)
Jan 2024	Invited Tutorial on graph machine learning at University of Pisa

AWARDS

Vasari Grant Winner | 2021

Research grant winner for Italian national project VASARI

Phd Selection | 2021

1st out of 40 candidates for Computer Science PhD selection

Indaco Grant Winner | 2022

Grant of 2000 computing hours on Indaco HPC platform

Best Lightning Presentation | 2022

Best Lightning Presentation at the 11th International Conference on Complex Networks and their Applications

Runner-up Bertalanffy Doctoral Student Award | 2023

Selected as one of the three nominees for the Bertalanffy Doctoral Student Award at the French Regional Conference on Complex Systems 2023

Runner-up Bertalanffy Data Visualization Competition | 2023

Selected as one of the runner-ups for the Data Visualization competition of the BUILD LAB at ITU Copenhagen

Graph Evolution Rule Mining Alessia Galdeman, Matteo Zignani, Sabrina Gaito Accepted at: 2022 IEEE International Conference on Data Science and Advanced Analytics (DSAA) Temporal analysis of cooperative behaviour in a blockchain for humanitarian aid during the COVID-19 pandemic Cheick T. Ba, Alessia Galdeman, Matteo Zignani, Sabrina Gaito Accepted at: The 2022 ACM International Conference on Information Technology for Social Good (GoodIT) Web3 social platforms: modeling, mining and evolution Cheick T. Ba, Alessia Galdeman, Manuel Dileo, Christian Quadri, Matteo Zignani, and Sabrina Gaito Accepted at: 1ST Italian Conference on Big Data and Data Science (ItaData) 2023 User migration across Web3 online social networks: behaviors and influence of hubs Alessia Galdeman, Matteo Zignani, and Sabrina Gaito Accepted at: IEEE International Conference on Communications (ICC) Unfolding temporal networks through statistically significant graph evolution rules Alessia Galdeman, Matteo Zignani, and Sabrina Gaito Accepted at: 2023 IEEE International Conference on Data Science and Advanced Analytics (DSAA) User migration prediction in blockchain socioeconomic networks using graph neural networks Cheick T. Ba, Alessia Galdeman, Manuel Dileo, Matteo Zignani, and Sabrina Gaito Accepted at: The 2023 ACM International Conference on Information Technology for Social Good (GoodIT) Analyzing user migration in blockchain online social networks through 2024 network structure and discussion topics of communities on multilayer networks Cheick T. Ba, Manuel Dileo, Alessia Galdeman, Matteo Zignani, and Sabrina Gaito Published in: Distributed Ledger Technologies: Research and Practice Exploring temporal triadic closure patterns in online social networks Alessia Galdeman, Cheick T. Ba, Matteo Zignani, and Sabrina Gaito Submitted to Journal Modeling and Analyzing Financial Interactions in NFT Markets through Multilayer Networks Alessia Galdeman, Lucio La Cava, Matteo Zignani, Andrea Tagarelli, and Sabrina Gaito Submitted to Journal Graph evolution rules meet communities: assessing global and local patterns in the evolution of dynamic networks

Alessia Galdeman, Matteo Zignani, Sabrina Gaito Submitted to Journal

COLLABORATIONS

NERDS LAB | IT University of Copenhagen Collaboration started in April 2023, working on the COllective COordination through ONline Social media (COCOONS) project Pisa-DL (Pisa Distributed Ledger Technology) LAB | University of Pisa Collaboration started in February 2022, working on blockchain-based networks AI-DS (Artificial Intelligence and Data Science University of Calabria Collaboration started in May 2022, working on blockchain-based networks SAND (Security, Algorithms, Networking and Data) LAB University of Chicago Collaboration started in July 2019, worked

on a machine learning project

REVIEWS

EPJ Data Science, Machine Learning journal, Multimedia Tools and Applications journal, Computer Science Review Journal, Applied Network Science, IEEE Transactions on Artificial Intelligence Journal, WebSci, ICWSM, NetSci, BRAIN at PerCom, LIMBo at ECML-PKDD

SELECTED PUBLICATIONS

Sabrina Gaito

behavior of citizens.

Through Cashless Payment Data

Alessia Galdeman, Cheick T. Ba, Matteo Zignani,

Accepted at: 2021 IEEE International Conference

on Data Science and Advanced Analytics (DSAA)

2021 A Multilayer Network Perspective on Customer Segmentation

City consumption profile: a city perspective on the spending

Alessia Galdeman, Cheick T. Ba, Matteo Zignani, Christian Quadri, Sabrina Gaito

Published in: Applied Network Science 6.1 (2021): 1-20. 2022 Disentangling the Growth of Blockchain-based Networks by