



## Angelo Rodio

**Date of birth:** 6 Jul 1995 | **Nationality:** Italian | **Phone number:** (+46) 702534852 (Work) |

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### ABOUT ME

I am a **postdoctoral researcher** at **Linköping University, Sweden**, working with Professor [Erik G. Larsson](#) and Associate Professor [Prof. Zheng Chen](#) on **decentralized machine learning**.

Previously, I completed my **PhD** at **Inria, France**, working with [Dr. Giovanni Neglia](#) on **federated learning**.

#### Keywords:

Decentralized Machine Learning, Federated Learning, Optimization

#### Profile overview

- Bachelor's in Computer Engineering, Politecnico di Bari, Italy (2014-2018)
- Master's in Telecommunication Engineering, Politecnico di Bari, Italy (2018-2020)
- Master's in Computer Engineering, Université Côte d'Azur, France (2019-2020)
- Telecommunication Engineer at TIM S.p.a., Italy (2020-2021)
- PhD in Computer Science, Centre Inria d'Université Côte d'Azur, France (2021-2024)
- Postdoctoral researcher, Linköping University, Sweden (2024-present)

### EDUCATION AND TRAINING

1 APR 2021 – 4 JUL 2024 Sophia Antipolis, France

**PHD IN COMPUTER SCIENCE** Centre Inria d'Université Côte d'Azur

Thesis: [Client Heterogeneity in Federated Learning Systems](#)

Advisors: [Dr. Giovanni Neglia](#), [Dr. Alain Jean-Marie](#) (Team [NEO](#))

1 SEP 2019 – 31 AUG 2020 Sophia Antipolis, France

**MSC IN COMPUTER ENGINEERING (DOUBLE DEGREE)** Université Côte D'Azur

Thesis in Internet of Things: *Design of a Wi-Fi Fingerprint-Based Indoor Positioning System for commercial smartphones.*

Advisors: [Dr. Arnaud Legout](#), [Dr. Chadi Barakat](#), [Prof. Luigi Alfredo Grieco](#)

Course Program and Exams: <https://ubinet.univ-cotedazur.fr/node/76>

**Website** <https://ubinet.univ-cotedazur.fr/> | **Final grade** Très Bien | **Type of credits** ECTS | **Number of credits** 120

1 MAR 2018 – 20 OCT 2020 Bari, Italy

**MSC IN TELECOMMUNICATIONS ENGINEERING (DOUBLE DEGREE)** Politecnico di Bari

Double Diploma program between Université Côte d'Azur and Politecnico di Bari in Internet Engineering.

Course Program and Exams: [https://www.poliba.it/it/didattica/corsi-di-laurea?](https://www.poliba.it/it/didattica/corsi-di-laurea?course_id=10016&idCorsoCode=LM14%2F2015%2F2017)

[course\\_id=10016&idCorsoCode=LM14%2F2015%2F2017](https://www.poliba.it/it/didattica/corsi-di-laurea?course_id=10016&idCorsoCode=LM14%2F2015%2F2017)

**Final grade** 110L | **Type of credits** ECTS | **Number of credits** 120

14 APR 2019 – 31 AUG 2019 Kazan, Russia

**ERASMUS+ KA107 STUDENT** Kazan National Research Technical University (KNRTU-KAI)

**Website** <https://kai.ru/web/en/events/event?id=9600379>

15 SEP 2014 – 28 FEB 2018 Italy

**BSC IN COMPUTER ENGINEERING** Politecnico di Bari

Thesis in Telecommunications Networks. *Study on the performance analysis of nanometric communication systems.*

Advisors: [Dr. Giuseppe Piro](#), [Prof. Gennaro Boggia](#).

Course Program and Exams: [https://www.poliba.it/it/didattica/corsi-di-laurea?course\\_id=10002&idCorsoCode=LT17%2F2013%2F2014](https://www.poliba.it/it/didattica/corsi-di-laurea?course_id=10002&idCorsoCode=LT17%2F2013%2F2014)

Final grade 109 | Type of credits 180 | Number of credits ECTS

## WORK EXPERIENCE

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 **LINKÖPING UNIVERSITY** – SWEDEN

**Department** Department of Electrical Engineering, Division for Communication Systems | **Email** [angelo.rodio@liu.se](mailto:angelo.rodio@liu.se) |

**Website** <https://liu.se/en/employee/angro77>

**POSTDOCTORAL RESEARCHER** – 15 SEP 2024 – CURRENT

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### Publications

#### PhD Thesis

- **Angelo Rodio**. [Client Heterogeneity in Federated Learning Systems](#). PhD Dissertation, Université Côte d'Azur, 2024.

#### Journal publications

- **Angelo Rodio**, Francescomaria Faticanti, Othmane Marfoq, Giovanni Neglia, and Emilio Leonardi. [Federated Learning under Heterogeneous and Correlated Client Availability](#). *IEEE/ACM Transactions on Networking*, 2023.

#### Conference publications

- **Angelo Rodio**, Francescomaria Faticanti, Othmane Marfoq, Giovanni Neglia, and Emilio Leonardi. [Federated Learning under Heterogeneous and Correlated Client Availability](#). In *INFOCOM*, IEEE, 2023.
- **Angelo Rodio**, Giovanni Neglia, Fabio Busacca, Stefano Mangione, Sergio Palazzo, Francesco Restuccia, and Ilenia Tinnirello. [Federated Learning with Packet Losses](#). In *WPMC*, IEEE, 2023.
- **Angelo Rodio** and Giovanni Neglia. [FedStale: Leveraging Stale Updates in Federated Learning](#). In *ECAI*, IOS Press, 2024.
- **Angelo Rodio**. [The Many Facets of Variance Reduction in Federated Learning](#). In *ACM SIGMETRICS Performance Evaluation Review*, 2025.
- **Angelo Rodio**, Zheng Chen, and Erik G Larsson. [Optimizing Privacy-Utility Trade-off in Decentralized Learning with Generalized Correlated Noise](#). To appear in *IEEE-ITW*, 2025.

#### Preprint publications

- Caelin Kaplan, **Angelo Rodio**, Tareq Si Salem, Chuan Xu, and Giovanni Neglia. [Federated Learning for Collaborative Inference Systems: The Case of Early Exit Networks](#). arXiv:2405.04249, 2024.

#### Presentations & Talks

- *INFOCOM 2023*: [Fed. Learning under Heterogeneous and Correlated Client Availability](#)
- *IEEE WPMC 2023*: [Federated Learning with Packet Losses](#)
- *SIGMETRICS 2024*: [The Many Facets of Variance Reduction in Federated Learning](#)
- *ECAI 2024*: [FedStale: leveraging Stale Client Updates in Federated Learning](#)
- *PHD Defense 2024*: [Client heterogeneity in federated learning systems](#)

#### Teaching

- [Federated Learning and Data Privacy](#) — Université Côte d'Azur, 2023, 2024
- [Optimization for Machine Learning](#) — Université Côte d'Azur, 2022

#### Awards & Grants

- [ACM Sigmetrics' Student Travel Grant Program](#) (2024)

#### Professional Memberships

- IEEE Student Member (2023–), ACM Student Member (2024–)

 **TIM S.P.A.** – ROME, ITALY

**TELECOMMUNICATION ENGINEER** – 1 SEP 2020 – 31 MAR 2021

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 **CENTRE INRIA D'UNIVERSITÉ CÔTE D'AZUR** – SOPHIA ANTIPOLIS, FRANCE

**RESEARCH INTERN** – 16 MAR 2020 – 31 AUG 2020

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## LANGUAGE SKILLS

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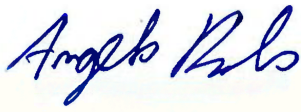
Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Linköping , 12 Jul 2025



Angelo Rodio