

# RICCARDO TAIELLO, PH.D.

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## ABOUT ME

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I work at the intersection of machine learning, collaborative learning, computer vision, and security & privacy, focusing on developing solutions for real-world challenges, particularly in medical and computer vision applications. My passion is combining multiple domains to create secure and impactful systems that address practical needs.

## EXPERIENCE

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**Machine Learning Engineer - Privacy Engineer @ Fed-BioMed** *Oct 2021 - Sept 2024*  
Led the design and deployment of two Secure Aggregation protocols for Federated Learning in hospital settings, resulting in a negligible overhead compared without Secure Aggregation.  
**Teaching Assistant @ EURECOM** *Oct 2022 - Feb 2024*  
- Secure Communication 15h & Big Data 15h

## AREAS OF EXPERTISE

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- **PETs (Expert):** Multi-Party Computation, Homomorphic Encryption, Differential Privacy
- **Python (Expert):** PyTorch, Keras, Flower, PySpark
- **Machine Learning (Expert):** Federated Learning, CNN, RNN, LLM, Transformers
- **DevOPS (Intermediary):** Git, Bash, CI-CD, SQL
- **Programming Languages (Intermediary):** Java, C, C++, Go-lang
- **Languages:** English (Full proficiency), French (Full proficiency), Italian (Native tongue)

## EDUCATION

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**Ph.D. in Privacy-Preserving Machine Learning for Collaborative Healthcare** *Oct 2021 - Sept 2024*  
*INRIA Sophia Antipolis - EURECOM*  
5 publications in medical imaging, privacy & security, and computer vision (See [Google Scholar](#) )  
**MSc in Computer Science** *Oct 2019 - Oct 2021*  
*Sapienza University of Rome* **110/110 with Honors**  
**Best Computer Science Student 2021**

## PUBLICATIONS

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Privacy Preserving Image Registration - @MICCAI 2022 (Rank A) and @MedIA (I.F. > 15K)  
**R. Taiello**, M. Önen O. Humbert, M. Lorenzi

Study on transfer learning capabilities for pneumonia classification in chest-x-rays images - @ CMPB (I.F > 5K)  
D. Avola, A. Bacciu, L. Cinque, A. Fagioli, M. R. Marini, **R. Taiello**

Let Them Drop: Scalable and Efficient Federated Learning Solutions Agnostic to Client Failures @ ARES 2024 (Rank B)  
**R. Taiello**, M. Önen C. Gritti, M. Lorenzi

## INVITED TALKS

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Stragglers in Private Federated Learning, 50th [AlgoCRYPT](#) Seminar (J.P. Morgan) *Aug. 2024*