

PERSONAL INFORMATION **Giordano Cicchetti**

EDUCATION AND TRAINING

2023–now **PhD - Information Communication Technology (ICT)** **ISCED 6**

Sapienza University of Rome, Italy

Research Field: Multimodal Alignment for Generative AI.

Notable Publications: **Cicchetti, Giordano**, et al. "Gramian Multimodal Representation Learning and Alignment." **ICLR 2025**

Cicchetti, Giordano, et al. "A triangle enables multimodal alignment beyond cosine similarity" **NeurIPS 2025**

2021–2023 **Master degree in Engineering in computer science** **ISCED 5**

Sapienza University of Rome, Italy

Graduation grade: 110/110 cum laude

Thesis title: "A ResFormer-Based Network for Document Enhancement"

- Machine Learning
- Neural Networks and Deep Learning
- Computer Vision
- Data Science and Big Data Computing
- Algorithms Design and Development

2018–2021 **Bachelor degree in Engineering in computer science** **ISCED 5**

Sapienza University of Rome, Italy

Graduation grade: 110/110 cum laude

- Computer skills
- **Programming Languages:** Proficient in Python, Java, C, and C++
 - **AI Frameworks and Libraries:** Extensive experience with PyTorch, PyTorch Lightning, and TensorFlow.
 - **Web Development:** Familiarity with HTML, CSS, JavaScript, and TypeScript.

- Communication skills
- **Teamwork:** Experienced in collaborating within diverse team settings, including research teams, industrial development teams, and university project collaborations.
 - **Communication Skills:** Possess strong confidence, articulation, and professionalism in verbal communication.
 - **Presentation Abilities:** Skilled in delivering clear, engaging, and well-structured presentations.

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
Cambridge B2 First (FCE) certificate - B2					

PUBLICATIONS

- [1] **Giordano Cicchetti**, Eleonora Grassucci, Luigi Sigillo, and Danilo Comminiello. “Gramian Multimodal Representation Learning and Alignment”. In: *International Conference on Learning Representations (ICLR)*. 2025.
- [2] **Giordano Cicchetti**, Eleonora Grassucci, and Danilo Comminiello. “A triangle enables multimodal alignment beyond cosine similarity”. In: *Advances in Neural Information Processing Systems*. 2025.
- [3] Eleonora Grassucci, **Giordano Cicchetti**, and Danilo Comminiello. “Contrastive Learning Enables Low-Bandwidth Semantic Communication”. In: *AAAI 2025 Workshop on Artificial Intelligence for Wireless Communications and Networking (AI4WCN)*. 2025.
- [4] **G. Cicchetti**, E. Grassucci, J. Park, J. Choi, S. Barbarossa, and D. Comminiello. “Language-Oriented Semantic Latent Representation for Image Transmission”. In: *IEEE Int. Workshop on Machine Learning for Signal Processing (MLSP)*. 2024.
- [5] **Giordano Cicchetti** and Danilo Comminiello. “NAF-DPM: A Nonlinear Activation-Free Diffusion Probabilistic Model for Document Enhancement”. In: *arXiv preprint arXiv:2404.05669* (2024).
- [6] Eleonora Grassucci, Jinho Choi, Jihong Park, Riccardo F Gramaccioni, **Giordano Cicchetti**, and Danilo Comminiello. “Rethinking Multi-User Semantic Communications with Deep Generative Models”. In: *arXiv preprint arXiv:2405.09866* (2024).
- [7] Giovanni Pignata, Eleonora Grassucci, **Giordano Cicchetti**, and Danilo Comminiello. “Lightweight Diffusion Models for Resource-Constrained Semantic Communication”. In: *arXiv preprint arXiv:2410.02491* (2024).