



BONTEMPO GIANPAOLO

PhD student

SKILLS

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|----------------------|-----|
| WSI | 80% |
| Image Classification | 80% |
| Continual Learning | 90% |
| MIL | 90% |
| deep vision | 80% |

SUMMARY :

As a dedicated researcher on deep vision, my work focuses on two crucial areas: Multi-Instance Learning (**MIL**) for Whole Slide Image (**WSI**) classification and **Continual Learning** for high-level concept mapping and consistent reasoning.

CONTACTS

Email:
gianpaolo.bontempo@phd.unipi.it
[Website](#)
[LinkedIn](#)

INTERESTS

I embarked on the path of a researcher because I love meeting new people, traveling, and, above all, providing a valuable contribution.

AWARDS

2023, MICCAI Student Author Registration (**STAR**) award

EDUCATION

University of Pisa

2021 – Present (third year)
PhD in national artificial intelligence

Politecnico of Turin

2017 - 2020
Master degree: 108/110

PROFESSIONAL EXPERIENCES

IIT, Research Fellow

2020 – 2021

Tour guide robot: Deployment of behaviors trees on a robotic system for a museum tour

Alfa Medica, CEO

2015 – 2020

PUBLICATIONS

1. **G. Bontempo**, A. Porrello, F. Bolelli, S. Calderara, E. Ficarra. A Graph-Based Multi-Scale Approach with Knowledge Distillation for WSI Classification **TMI** (Under Review)
2. **G. Bontempo**, A. Porrello, F. Bolelli, S. Calderara, E. Ficarra. "DAS-MIL:Distilling Across Scales for MIL Classification of Histological WSIs." **MICCAI 2023** (oral presentation)
3. E.Marconato, **G.Bontempo**, E.Ficarra, S.Calderara, A.Passerini, S.Teso. "Neuro Symbolic Continual Learning: Knowledge, Reasoning and Concept Rehearsal" **ICML 2023**
4. **G.Bontempo**, N. Bartolini, M.Lovino,F.Bolelli,E.Ficarra. "Enhancing PFI prediction with GDS-ML: A graph-based dual stream MIL approach" **ICIAP 2023**
5. **G.Bontempo**, L.Lumetti,A.Porrello,F.Bolelli,E.Ficarra. "Buffer-MIL: Robust Multi Instance Learning with a Buffer Based Approach" **ICIAP 2023**
6. E.Marconato,**G.Bontempo**,S.Teso,E.Ficarra,S.Calderara,A. Passerini. "Catastrophic Forgetting in Continual Concept Bottleneck Models". **ICIAP 2022**
7. F.Citarrella, G.Bontempo, M.Lovino, E.Ficarra. "FusionFlow: an integrated system workflow for gene fusion detection in genomic samples" **ADBIS 2022**
8. M.Lovino,**G.Bontempo**,G. Cirrincione, E. Ficarra. " Multi-omics classification on kidney samples exploiting uncertainty-aware models. **ICIC 2020**