

University Academic Curriculum Vitae

Personal information Name: Pietro Buzzega
Year of birth: 1995
Nationality: Italian
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Education since leaving school

- Bachelor degree in Computer Engineering (2017), University of Modena and Reggio Emilia
- Master degree in Computer Engineering (2019), University of Modena and Reggio Emilia

Present appointment

- Teaching Assistant of the course Deep Learning (Master in Computational Data Science)
- start First term, academic year 2022-2023
- Free University of Bolzano/Bozen

From / to	Job title	Company	responsibilities
from 2021/04	Computer Vision and Machine Learning Engineer	Covision Lab	Development of a machine-learning-based visual inspection system

Experience in academic teaching

- Course: Machine Learning and Deep learning, Master Degree in Computer Engineering (academic years 2020/2021 and 2021/2022)
- Institution: University of Modena and Reggio Emilia
- Role: teaching assistant
- Supervised 2 students during their internship and thesis

Research and scholarships

Date granted	Award Holder(s)	Funding Body	Title	Amount received
2019/15/12	Assegnista di ricerca	Dipartimento di Ingegneria "Enzo Ferrari"	Continual machine learning techniques applied to remote sensing data.	19367.00€
2021/01/01	Assegnista di Ricerca	Dipartimento di Ingegneria "Enzo Ferrari"	Sviluppo e test di librerie software per Image Processing e Computer Vision, progetto DeepHealth – WP3	4842.00€

Publications

- Vincenzi, S., Porrello, A., Buzzega, P., Conte, A., Ippoliti, C., Candeloro, L., Di Lorenzo, A., Capobianco Dondona, A., Calderara, S. Spotting insects from satellites: modeling the presence of *Culicoides imicola* through Deep CNNs. In International Conference on Signal Image Technology & Internet based Systems, 2019. DOI:10.1109/SITIS.2019.00036.
- Vincenzi, S., Porrello, A., Buzzega, P., Cipriano, M., Fronte, P., Cuccu, R., Ippoliti, C., Conte, A. & Calderara, S. (2020). The color out of space: learning self-supervised representations for Earth

Observation imagery. In 2020 25th International Conference on Pattern Recognition (ICPR) IEEE.
DOI: 10.1109/ICPR48806.2021.9413112.

- (*) *Buzzega, P., Boschini, M., Porrello, A., Abati, D. & Calderara, S.* (2020). Dark Experience Replay for General Continual Learning. In the 34th Conference on Neural Information Processing Systems (NeurIPS 2020).
<https://proceedings.neurips.cc/paper/2020/hash/b704ea2c39778f07c617f6b7ce480e9e-Abstract.html>
- *Buzzega, P., Boschini, M., Porrello, A. & Calderara, S.* (2020). Rethinking Experience Replay: a Bag of Tricks for Continual Learning. In 2020 25th International Conference on Pattern Recognition (ICPR) IEEE.
DOI: 10.1109/ICPR48806.2021.9412614
- *Boschini, M., Buzzega, P., Bonicelli, L., Porrello, A. & Calderara, S.* (2022). Continual Semi-Supervised Learning through Contrastive Interpolation Consistency. In Pattern Recognition Letters.
DOI: 10.1016/j.patrec.2022.08.006
- (*) *Boschini, M., Bonicelli, L., Buzzega, P., Porrello, A., & Calderara, S.* (2022). Class-incremental continual learning into the extended der-verse. In IEEE transactions on Pattern Analysis and Machine Intelligence. Accepted (Sept. 2022) but not published yet.

Statement of interest Given my experience in teaching, tutoring and research over the past years, I believe I am suited to the role of Teaching Assistant of the course Deep Learning (Master in Computational Data Science).

Language competence Italian: Mother Tongue
English: C1
German: A2

Date 2022/09/15

Signature

