

FEDERICO ERRICA

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Interested in Deep Learning for **Graphs**

EDUCATION

University of Pisa, Italy Ph.D. <i>w. honors</i> in Computer Science Title: Bayesian Deep Learning for Graphs Supervised by Davide Bacciu and Alessio Micheli	<i>November 2018 - February 2022</i>
University of Pisa, Italy M.Sc. in Computer Science (110/110 Hons.)	<i>March 2018</i>
University of Pisa, Italy B.Sc. in Computer Science (110/110)	<i>October 2015</i>

EXPERIENCE

NEC Laboratories Europe GmbH <i>Research Scientist</i>	January 2022 - Present <i>Heidelberg, DE</i>
University College London <i>Visiting Scholar</i>	January 2021 - May 2021 <i>Virtual</i>
Facebook AI Research <i>Research Intern</i>	June 2019 - September 2019 <i>London, UK</i>
Laife Reply <i>Machine Learning Researcher</i>	March 2018 - October 2018 <i>Milano, IT</i>

SELECTED PUBLICATIONS

Errica, F. *On Class Distributions Induced by Nearest Neighbor Graphs for Node Classification of Tabular Data* in **NeurIPS** (2023).

Errica, F., Bacciu, D. & Micheli, A. PyDGN: a Python Library for Flexible and Reproducible Research on Deep Learning for Graphs. **Journal of Open Source Software** (2023).

*Castellana, D., *Errica, F., Bacciu, D. & Micheli, A. *The Infinite Contextual Graph Markov Model* in **ICML (Equal Contribution)** (2022).

Errica, F., Bacciu, D. & Micheli, A. *Graph Mixture Density Networks* in **ICML** (2021).

Bacciu, D., Errica, F. & Micheli, A. Probabilistic Learning on Graphs via Contextual Architectures. **Journal of Machine Learning Research. (First Author - Alphabetical Order)** (2020).

Bacciu, D., Errica, F., Micheli, A. & Podda, M. A Gentle Introduction to Deep Learning for Graphs. **Neural Networks 129. (Equal Contribution)**, 203–221 (2020).

Errica, F., Podda, M., Bacciu, D. & Micheli, A. *A fair comparison of graph neural networks for graph classification* in **ICLR (Equal Contribution)** (2020).

Bacciu, D., Errica, F. & Micheli, A. *Contextual Graph Markov Model: A Deep and Generative Approach to Graph Processing* in **ICML (First Author - Alphabetical Order)** (2018).

MAIN GITHUB PROJECTS

PyDGN A Research Library for Deep Graph Networks	<i>Link</i>
gnn-comparison A Fair, Robust, and Reproducible comparison of Deep Graph Networks	<i>Link</i>
GMDN Graph Mixture Density Networks	<i>Link</i>
CGMM Contextual Graph Markov Model	<i>Link</i>

HONOURS AND AWARDS

ICLR 2022 Highlighted Reviewer Award Awarded by the Program Chairs for the reviews' quality	
HPC-Europa3 Transnational Access Project proposal selected for a visiting period at the University of Cambridge	
2nd place - Ilaria Castelli Award Best Master's Degree Thesis on Machine Learning and Pattern Recognition	<i>Link</i>
ICML 2018 Travel Award Grant by the International Machine Learning Society	

TALKS

ESANN 2023 Introduction to Graph Representation Learning	<i>October 2023</i>
NEC Laboratories Europe GmbH Bayesian Deep Learning for Graphs	<i>July 2021</i>
IBM Graph Representation Learning: from Neural Beginnings to Probabilistic Perspectives	<i>April 2021</i>
Continual AI Presentation about our work on Catastrophic Forgetting for Deep Graph Networks	<i>April 2021</i>

ACTIVITIES

Reviewer TNNLS, TPAMI, TKDE, AI, ICML, ICLR, NeurIPS, AAAI, Neurocomputing, Scientific Reports, IJCNN, ESANN, ICANN	
Co-organizer of Special Sessions on Deep Learning for Graphs IJCNN 2023, ESANN 2023/2022, LOD2022.	
Co-organizer of MLDM 2023/2022 (AIxIA) The Italian Workshop on Machine Learning and Data Mining	
Co-organizer of ESANN 2021 Special Session Complex Data: Learning Trustworthily, Automatically, and with Guarantees	
Teaching Assistant Machine Learning	<i>2020-2021</i>
Computational Neuroscience	<i>2019-2020</i>

LANGUAGES

Italian

Native Speaker

English

Cambridge C2 Proficiency (CPE) - grade B (219/230)

German

A1 Level