







Marco ROBERTI

Ph.D. Candidate





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ABOUT ME

I'm Marco Roberti, a Ph.D. candidate in the Department of Computer Science of the University of Turin. My main research interest is the application of Deep Neural Networks to the Data-to-Text Generation task. I collaborate with the Sorbonne University (France) and the Italian National Institute for Astrophysics (INAF). Research and personal projects are available on GitHub.

PROG. LANGUAGES

Python: expert ( PyTorch ·  HuggingFace ·  PyTorch-Lightning ·  Keras · OpenNMT)
Java: skilled (Android · JavaFX · Google Maps)
C: prior experience (UNIX system calls · teaching)

HUMAN LANGUAGES

English - proficient
French - fluent
Italian - native

EXPERIENCE






- 2018 – 2022 **Ph.D, Computer Science** **University of Turin (IT)**
I develop novel algorithms for Data-to-Text Generation, focusing on character-based representation and hallucination-free models. Besides, I investigate the use of machine learning techniques for anomaly detection in ESA's Gaia space mission data.
Deep Learning / Data-to-Text Generation / NLP
- 2019 **Research intern** **LIP6 – Sorbonne University (FR)**
I built a character-based RNN encoder-decoder model for data-to-text generation (E2E Challenge dataset). This internship resulted in the publication of *Copy Mechanism and Tailored Training for Character-Based Data-to-Text Generation*.
PyTorch / RNNs / Sequence-to-Sequence architectures
- 2018 – 2021 **Adjunct lecturer** **University of Turin (IT)**
M.Sc. in Artificial Intelligence: Deep Learning lectures, including the presentation of my Ph.D. research work.
M.Sc. in Military Strategy: C and UNIX programming lab sessions.

EDUCATION





- 2016 – 2018 **M.Sc, Computer Science – *summa cum laude*** **University of Turin (IT)**
Machine Learning / Statistics / Artificial Intelligence
- 2016 **M.Sc, Computer Science (Semester abroad)** **University of Montpellier (FR)**
NLP / Image Processing / Distributed algorithms
- 2011 – 2015 **B.Sc, Computer Science – *summa cum laude*** **University of Turin (IT)**
Algorithms / Data structures / Design patterns

ACADEMIA & PROJECTS

First-authored publications (complete record available on Scholar):

- 2021 **Controlling Hallucinations at Word Level in Data-to-Text Generation**  
C. Rebuffel & **M. Roberti** (equal contribution), L. Soulier, G. Scuttheeten, R. Cancelliere, P. Gallinari — Springer's Data Mining and Knowledge Discovery, ECML-PKDD 2022 (Journal Track)
- 2019 **Copy Mechanism and Tailored Training for Character-Based Data-to-Text Generation**  
M. Roberti, G. Bonetta, R. Cancelliere, P. Gallinari — ECML-PKDD 2019
- 2021 **Anomaly Detection Techniques in the Gaia Space Mission Data** 
M. Roberti, A.Druetto, D. Busonero, R. Cancelliere, D. Cavagnino, M. Gai — Journal of Signal Processing Systems

Personal projects:

- 2021 **@Calend_AI Twitter bot**  
An automated Italian Twitter profile backed by a small toy  Language Model. It mimics the peculiar writing style and content of an Italian public figure.
- 2018 **E2E DataSet for PyTorch** 
The E2E Challenge Dataset, packed as a PyTorch DataSet subclass.

SKILLS

Curiosity took me to computer science, still guiding my research inspiration.
I face my tasks with serious **responsibility**.
My approach when the play gets hard: problem-solving & **having-fun!**

REVIEWS

EACL Conference
Springer's Neural Processing Letters
WebNLG@INLG2020 (also as a member of the PC)

FREE TIME

Leading the Silviadizenzero local association: I engage in environmental disclosure in public and on the radio, organize actions and social events – including the annual “Ginger Fest” –, and manage the volunteers.
Keynote **speaker and moderator** in the Digital Ethics Forum (2019-2021).
Taking care of my physical and mental health via **swimming** and bodyweight training.