

Nicolas Carrara, Ph.D.

Curriculum Vitae

🗨️ Communication in English or French.
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PROFESSIONAL EXPERIENCE

MARCH 2020 – PRESENT

University of Toronto, Canada
Post Doctoral Fellow

Deep Reinforcement Learning (DRL) for traffic signal control. Including Multi-Agent and Transfer Learning (TL).

OCTOBER 2015 – DECEMBER 2019

Orange Labs, CRISAL and U. Lille, France
Ph.D.

Reinforcement learning (RL) for dialogue systems optimization with user adaptation. Including DRL, safe RL, and TL.

JULY 2019

RLSS, France
Teaching Assistant

Helping during lab sessions of the Sequel's RL Summer School 2019, first edition.

2017 – 2019

U. Lille, France
Principal Lecturer

Teaching diverse topics including: RL, Web Design, Algorithms, Regular Expressions, Linux etc.

2013 – 2015

INRIA, France
Research intern

Multiple internships during my bachelor and master: multi-objectives MDPs (MSc Thesis), Dynamic Neural Fields, and Monte Carlo Markov Chains.

EDUCATION

2017 **LxMLS 2017**

MACHINE LEARNING AND NATURAL LANGUAGE PROCESSING
Instituto Superior Técnico, Portugal

2015 **MSc, head of the class, magna cum laude.**

MACHINE LEARNING
Université de Lorraine, France

COMPUTER SCIENCE SKILLS

Python (Tensorflow, Pytorch, Numpy, matplotlib), Java, Javascript, Linux, Git, RegEx.

REVIEWING

2021 AAAI

2020 IEEE L-CSS, ECML-PKDD, MLJ

TALKS

2019 Presenting [1] at Amazon (Vancouver), Huawei (Paris) and Ford/West Virginia University (remote).

PUBLICATIONS

- [1] Nicolas Carrara et al. Budgeted reinforcement learning in continuous state space. In **NeurIPS**. Also published at two workshops: **EWRL (2018)** and **UAI (2018)**, 2019.
- [2] Nicolas Carrara. Reinforcement learning for Dialogue Systems optimization with user adaptation. **Ph.D. Thesis**, Ecole Doctoral Science pour l'Ingénieur Université Lille Nord-de-France, December 2019.
- [3] Nicolas Carrara et al. Safe transfer learning for dialogue applications. In **SLSP**, 2018.
- [4] Nicolas Carrara et al. Online learning and transfer for user adaptation in dialogue systems. In **SIGDIAL/SemDial**, 2017.