

# Daniele Reda

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## EDUCATION

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### University of British Columbia

*PhD in Computer Science*

Sep. 2019 – ongoing  
Vancouver, BC, Canada

- Advisor: Michiel Van de Panne

### Telecom ParisTech - Eurecom Research Center

*Master of Science in Computer Science*

Sep. 2016 – Apr. 2018  
Sophia Antipolis, France

### Polytechnic University of Turin

*Master of Science in Computer Engineering, full honours*

Sep. 2015 – Apr. 2018  
Turin, Italy

### Polytechnic University of Turin

*Bachelor of Science in Computer Engineering*

Sep. 2012 – Jul. 2015  
Turin, Italy

## EXPERIENCE

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### Wayve Technologies

*Reinforcement learning Research Engineer*

May 2018 – June 2019  
Cambridge, UK

- Reinforcement learning on autonomous vehicles.

### University of California, Berkeley

*Visiting Research Scholar at Berkeley AI Research Lab*

Aug. 2017 – Feb. 2018  
Berkeley, CA

- Research scholar with professor Ruzena Bajcsy working on statistical models for truth telling recognition.

### Polytechnic University of Turin

*Student Assistant*

Mar. 2016 – Jun. 2016  
Turin, Italy

- Teaching Java laboratories for the undergraduate course of Object Oriented Programming.

### Polytechnic University of Turin

*Technical Assistant*

Sep. 2015 – Mar. 2016  
Turin, Italy

- Linux and Windows maintenance duties in the Advanced Computer Science Laboratory.

## PUBLICATIONS

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- [1] **Daniele Reda**, Tianxin Tao, and Michiel van de Panne. Learning to locomote: Understanding how environment design matters for deep reinforcement learning. In *Proc. ACM SIGGRAPH Conference on Motion, Interaction and Games*, 2020. Webpage at <https://www.cs.ubc.ca/~van/papers/2020-MIG-envdesign>.
- [2] Jeffrey Hawke\*, Richard Shen\*, Corina Gurau\*, Siddharth Sharma\*, **Daniele Reda\***, Nikolay Nikolov\*, Przemyslaw Mazur\*, Sean Micklethwaite\*, Nicolas Griffiths\*, Amar Shah\*, and Alex Kendall\*. Urban driving with conditional imitation learning. *International Conference on Robotics and Automation (ICRA)*, 2020. Blog post at <https://wayve.ai/blog/learned-urban-driving>.
- [3] Alex Kendall, Jeffrey Hawke, David Janz, Przemyslaw Mazur, **Daniele Reda**, John-Mark Allen, Vinh-Dieu Lam, Alex Bewley, and Amar Shah. Learning to drive in a day. *International Conference on Robotics and Automation (ICRA)*, 2019. Blog post at <https://wayve.ai/blog/l2diad>.

## OTHER PROJECTS

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### Learning to Drive in Imagination

2018

- We demonstrate a model-based algorithm trained solely in imagination drive and generalize to multiple weathers in the real-world.
- Blog post: <https://wayve.ai/blog/dreaming-about-driving-imagination-rl>

## TEACHING

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**CPSC 422 Intelligent Systems:** Winter Term 1, 2019

**IVADO/MILA/DSI Deep Learning School 5th Edition:** December 2019

**DSCI 572 Supervised Learning II:** Winter Term 2, 2020

**DSCI 563 Unsupervised Learning:** Winter Term 2, 2020

**DSCI 575 Advanced Machine Learning:** Winter Term 2, 2020

**WON THE MDS TA AWARD:** Winter Term 2, 2020

## SKILLS

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**Computer Languages:** Python, Java, C

**Human Languages:** English, Italian, French, Spanish

**Technologies:** Pytorch, GitHub, L<sup>A</sup>T<sub>E</sub>X, ROS

**Soft skills:** communication and leadership skills, organizational and team working skills, 7+ years of volunteering