

Dylan Bourgeois

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04/11/94

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US & French citizen

education

09/2016
04/2019 Master of Science & Engineering /speciality Robotics + extra credits in Computational Neuroscience, EPFL

09/2012
06/2016 Bachelor of Science & Engineering /speciality Microengineering, EPFL

06/2012 French Bacculaureate, Scientific specialization & advanced Mathematics summa cum laude

publications

Learning Representations of Source Code from Structure and Context
Bourgeois, Catasta, Leskovec
[pre-print](#)

A dynamic embedding model of the media landscape
Rappaz*, Bourgeois*, Aberer
[WWW'19](#)

GNNEExplainer: Generating Explanations for Graph Neural Networks
Ying, Bourgeois, You, Zitnik, Leskovec
[pre-print](#)

Selection Bias in News Coverage: Learning It, Fighting It
Bourgeois*, Rappaz*, Aberer
[WWW'18](#)

Using holistic information in the Trigger
Bourgeois, Fitzpatrick, Stahl
[LHCb Pub](#)

New approaches for track reconstruction in LHCb's Vertex Locator
Hasse, Albrecht, Couturier, Bourgeois, Coco, Nolte, Ponce
[JHEP'18](#)

can speak...

proficiency
mother tongue English
mother tongue French
fluent Spanish

currently

SNAP, Stanford / LTS2, EPFL, Sept 2018-July 2019

Masters thesis project, working on learning deep representations of source code from structure and context, integrating rich feature information from graph structures and multimodal representations from programming languages. After a successful defense with honors, this work is currently being pursued and extended.

did it experience

LHCb Trigger Group, CERN, Feb-Aug 2018

As an intern, investigated machine learning methods which would select interesting particle collisions in a processing-friendly way, using only low-level detector information.

Robot Learning & Interaction Group, IDIAP, Sept-Dec 2017

As part of a semester project, we were investigating partial joint control on a humanoid robot. This project was finalized by an AR interface based on Tango to control the Baxter robot.

Distributed Information Systems Laboratory (LSIR), EPFL, Feb-Jun 2017

As part of a semester project, we worked on identifying correlations in news coverage using Matrix Factorisation methods, usually used in recommender systems.

Learning Algorithms and Systems Laboratory (LASA), EPFL, Feb-Jun 2016

Studying failure detection, prediction and recovery for robots. Using the robot's internal and external sensors, were trying to determine when a robot task execution was about to fail.

Institut de Robòtica i Informàtica industrial (IRI), UPC-Barcelona, Summer 2016

Extending a visual odometry framework to support inertial readings at a high frequency. This included verifying and implementing IMU preintegration on manifold methods.

Laboratory of Intelligent Systems (LIS), EPFL, Sept-Dec 2015

Implementation of a free-fall recovery algorithm for a quadcopter, allowing for emergency stabilization or throw recovery.

and for fun...

Tennis ● Running ● Climbing

Music curation ● Film editing ● Traveling

can do programming

proficiency
Main ●●● Python
Scholar ●●● C(++)
Working ●●● Swift/Rust/JS

can do software

Matlab ● Solidworks (CAD)
Sketch ● Gantt Project ● ROS
Final Cut Pro ● Premiere Pro
Docker ● Sklearn ● PyTorch
Tensorflow ● Git ● Jupyter

and also...

Speaker AI+Journalism Workshop
pilote.media, 2019

Speaker ML Workshop
powercoders, 2018

Teaching Assistant
Applied Data Analysis, EPFL, 2017

Head of IT
Satellite, EPFL, 2016-2017

Stage + Music programmer
Sat Rocks, EPFL, 2016

Contributor Signal for iOS
Open Whisper Systems, 2014

Freshman Counselling
EPFL, 2014

Student Assistant CS101
EPFL, 2013

