

ALICE BIZEUL

Doctoral Fellow at ETH AI Center

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EDUCATION

Doctoral Fellow

ETH AI Center

September 2021 Zurich, Switzerland

- PhD. advisers: Prof. Julia Vogt (ETHZ), Prof. Bernhard Schölkopf (Max Planck Institute)
- Research Interests: generative processes, representation learning, medical applications

MSc Life Sciences Engineering

Swiss Federal Institute of Technology (EPFL)

September 2018 - August 2020 Lausanne, Switzerland

- Specialization in Computational Neurosciences
- Average Grade : 5.5/6 (Graduated with high honors)

BSc Life Sciences Engineering

Swiss Federal Institute of Technology (EPFL)

September 2014 - June 2017 Lausanne, Switzerland

- Average Grade : 5/6

EXPERIENCE

Master's Thesis in Biomedical Image Computing

Massachusetts Institute of Technology (MIT)

Feb - August 2020 Cambridge MA, United States

Towards a representation of 3D MRI images: I worked on ways to generate and represent structural and functional 3D MRI scans using deep learning generative models (GAN, VAE, SOM-VAE).
Supervisors : Pr. Satrajit Ghosh, Pr. Dimitri Van de Ville

Research Assistant

Defitech Chair in Brain-Machine Interface (CNPI - EPFL)

September 2018 - January 2019 Lausanne, Switzerland

Development of an EEG processing algorithm for neurophysiological evaluation of motor control and movement disorders
Supervisors : Pr. Ricardo Chavarriaga, Pr. José del R. Millán

Project Manager

Junior Enterprise (EPFL)

September 2018 - February 2019 Lausanne, Switzerland

Member of the Junior Enterprise EPFL association as a project manager

SKILLS

Deep Learning Machine Learning

Computer Vision Neuroimaging

Python C++ C# Matlab R

Bash GPU Computing

Unity Brain Voyager Webots

SPM fMRI Freesurfer

LANGUAGES

French

Mother Tongue

English

Proficiency - TOEFL 107

Dutch

Elementary

DISTINCTIONS

ETH AI Center Doctoral Fellowship Recipient

September 2021

Zurich, Switzerland

Palantir Women in Tech Scholarship Recipient

Palantir Technologies

April 2019 London, United Kingdom

High School Mathematics Price Winner

June 2014 Liège, Belgium

TEACHING

Teaching Assistant

Swiss Institute of Technology (EPFL)

2015 - 2018 Lausanne, Switzerland

Management of exercise sessions with groups of students for multiple classes

R&D Engineer Intern

GTX Medical

📅 February 2018 - July 2018

📍 Eindhoven, The Netherlands

Development of an EMG automatic detection algorithm to improve spinal cord injury rehabilitation therapy

Supervisors: André Kleibeuker, Davide Lombardo

Research Assistant

Vision Institute

📅 September 2017 - February 2018

📍 Paris, France

Development of an experiment combining fMRI & VR to better understand cerebral bases of visual processing & spatial cognition

Supervisors : PhD. Stephen Ramanoel, Pr. Angelo Arleo

PUBLICATIONS

👥 Conference

- Ramanoël S. Durteste M. Bizeul A. Bécu M., Habas C. and Arleo A. (2019). "Age-related differences in the neural bases of landmark versus geometric spatial cue processing". In: *Colloque international "Vieillesse: tours, contours et perspectives"*, Tours, France, September 12-13.
- Ramanoël S. Durteste M. Bizeul A. Ozier-Lafontaine A. Bécu M. Rossignol N., Habas C. and Arleo A. (2019). "Distinct cerebral structures are involved in landmark- vs. geometry-based spatial navigation". In: *Society for Neuroscience, Chicago, USA, October 19-23*.