Juliette MILLET

Personal informations

Place and date of birth	Cannes, France	8 Juin 1994
email:	juliette.millet@cri-paris.org
website:	https://jamju.github.io/

Education

2018 - Now	*Speech models for foreign language speech perception* Thesis project between the Laboratoire de Linguistique Formelle (Université Paris Diderot), and the Cognitive Machine Learning team of the LSCP (ENS Paris), directed by Ewan DUNBAR and Ioana CHITORAN (ED474).
June - July 2019	LSA Linguistic Institute (Davis, Etats Unis)
2017 - 2018	Master 2 Mathematics, Vision and Learning (MVA) at the **École normale supérieure Paris-Saclay**.
2015 - 2016	Second year at the **Ecole des Ponts ParisTech** Champs-sur-Marne Ingenieuring, Mathematics and Informatics department.
2014 - 2015	Admission to the **Ecole des Ponts ParisTech**, Champs-sur-Marne, and first year in this school.
2012 - 2014	MPSI and MP * in the **Lycée Louis Le Grand**, Paris. Preparation to the French 'Grandes Ecoles'.

Teaching

Sep 2019 - Jan 2020	"Data Science, do it yourself!", Cogmaster, ENS Paris.
Avr - Sep 2019	Internship supervisor of Maud Parrot, student of the M2 master Mathematics, Vision and Learning, ENS Paris Saclay.
Avr - June 2019	Internship supervisor of Beyza Tasdelen, L3 in Informatics and Linguistics, Université de Paris.
Jan - Apr 2019	Algorithmics tutorial classes, L3LI, Université de Paris
Sep 2018 - Jan 2019	Python Programming tutorial classes, L3LI, Université de Paris

Papers

2019	Millet, Juliette, and Neil Zeghidour. "Learning to detect dysarthria from raw speech." ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
2019	Millet, Juliette, Nika Jurov, and Ewan Dunbar. "Comparing unsupervised speech learning directly to human performance in speech perception." Cogsci 2019
2019	Parrot, Maud, Juliette Millet, and Ewan Dunbar. Independent and automatic evaluation of acoustic-to-articulatory inversion models [Submitted to ICASSP 2020]

Research projects and internships

Av 2018 -Sep 2018	**Internship in the Cognitive Machine Leaning team,** *LSCP, ENS Paris* Unlike for images, machine learning techniques applied to sound do not directly take raw data. Some manual preprocessings of the raw waveform need to be made, and those transformations are sometimes totally arbitrary. During this internship I worked on time domain filterbanks, a technique to learn the parameters of the information extraction from the raw waveforms along with the rest of the system applied to my data.
Feb 2017 -Jul 2017	**Internship at Eurofins NZ,** *Agri testing laboratory* I worked during 6 months in one of the laboratory of Eurofins NZ in Auckland. Its speciality was soil, plant and fertilizers testing. My mission during this internship was to optimize the processes, and to create a software to accelerate them.
Jul 2016-Jan 2017	**Internship at Dassault System,** *Augmented Experience Service* Nowadays, 3D objects libraries are really essential for vision and object recognition research, but creating those objects can be tedious, especially if you need thousands of them. My mission during this internship was to use Machine Learning (especially autoencoders) and usual vision methods to create huge 3D objects libraries given only a few 3D objects.
Jan-June 2016	*Timetable optimization project with* Eurofins Eurofins is the world leader in food, pharma and environmental laboratory testing. The volunteers for food testing have their own timetable, and some clients want them to have special characteristics, so tests are hard to set up. With my team, we developed an optimisation algorithm to help the organisation of tests.
Jan-Ju 2016	*"Data mining and Analysis" project made with* Fotonower Fotonower is a search engine of photos crawled on social media. Our mission during this project was to develop a tool (using machine learning techniques) that would enable Fotonower to detect Instagram users more disposed to give their photo for free.
Apr-Jul 2015	Scientific internship at the University of Milano

Degree

2018	Master 2 Mathematics Vision and Learning (MVA), ENS Paris Saclay, mention "Trés bien" (very good)
2018	Ecole Nationale des Ponts et Chaussées ingeneering diploma, Ingeneering, Mathematics and Informatics specialization, mention "Trés bien" (very good)
2014	TOEIC
Juin 2012	Baccalauréat, mention "Très bien" (very good) - Art and Italian option