

Mathilde Legrand

PhD student in medical robotics

Born Paris, May 14th, 1992 Nationality: French 3 rue Friant, 75014 Paris, France +33 6 85 15 75 99 legrand@isir.upmc.fr

	Education
2015-2017	Ecole Polytechnique Fédérale de Lausanne, Master of Science in Bioengineering.
	Specialization in Biomechanical engineering. Graduated in Sept. 2017.
2011-2014	Ecole Polytechnique, one of France's leading universities for high-level scientific training.
	Grade of Master awarded in September 2014.
2009-2011	Lycée Sainte-Geneviève, Versailles
	Two-year intensive program in Advanced Mathematics and Physics in preparation for the
	nationwide competitive examination to enter the French <i>Grandes Ecoles</i> for scientific studies.
Work experiences	
Oct. 2017	ISIR, Université Pierre et Marie Curie, Paris, France
	PhD : Intuitive and natural control for upper-limb prosthetics
March-August	ISIR, Université Pierre et Marie Curie, Paris, France
2017	Master thesis: Movement-based control approaches for upper-limb prosthetics: a comparison
	of interjoint coordination models
Sept.2016-	LSRO, EPFL, Lausanne, Switzerland
Jan.2017	Project : Closed loop position control with FES for stroke patients.
July-Sept. 2016	Instent, Palaiseau, France
Name 1	Internship: development of a sensor for blood clot analysis.
March-June 2016	Laboratoire d'Automatique, EPFL, Lausanne
Oct 2014 August	Semester project: Six degrees of Freedom biomechanical model of the shoulder joint. « Jeunes à l'Etranger », Youth abroad, international volunteer work, Chad.
Oct.2014-August 2015	•
2015	 Education: helped teenagers at school and gave reading and writing classes to adults Project management: fundraising to build a school
Sept. 2014	Direction Départementale des Territoires de la Savoie, French administration
Зерt. 201 4	Examination of the aid application form for Common Agricultural Policy.
AprJuly 2014	School of Engineering and Medical Sciences, Queen Mary University, London, UK
71p1. 301y 2011	Research internship: Investigation of load transfer from fascicles to fibrils in tendons with
	different functions
SeptDec. 2013	Institute for Research in Computer Science and Control, Palaiseau, France
•	Research project : Calibration of a mechanical model of the heart
Summer 2013	Airbus Military, Sevilla, Spain
	Internship: maintenance of military aircrafts and work in a team of production.
Oct. 2011-April	Apprentis d'Auteuil, care institution for minors. Internship as part of the school curriculum
2012	 helped troubled teenagers by giving them classes.
	 worked in groups with teachers and youth workers sharing in their job.
Summer 2011	Father Ceyrac children's trust, charity work, India (five weeks).
Skills	
Languages	French (mother tongue); English (fluent), TOEFL; Spanish (intermediate)
Knowledge	Matlab, Finite elements method (Abaqus), COMSOL
Extra Curricular Activities	
Music and sport	flute (sixteen years), harp (fourteen years), member of an orchestra.
	basketball at regional and national level.
Association	scouting movement, scout leader for girls aged eight to eleven.
	Board member of ELSE, a local, ethic and fair grocery managed by students.
	Organization of lectures given by famous people working in French cinema.