

Pierre Kibleur

PhD student

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Age 27 (Feb 17th, 1993) • French

Experience

Laboratory of Wood Technology, Ghent University, Belgium

Developing hygroscopic deformation models of wood-based panels, from time-resolved 3D images acquired with X-ray microtomography (PhD thesis) 2018-(2022)

Biorobotics Laboratory, EPFL, Lausanne, Switzerland

Biomechanical model of the primates' upper limb: design of stimulation protocols for the recovery of reaching movements in tetraplegia (Master Thesis) 2018

G-Therapeutics, Lausanne, Switzerland

Programming of a 3D robotic body weight support system for gait rehabilitation, integration of IMU sensors, writing and automation of the code's unit testing conform to Medical Software norms 2017

Education

EPFL, Swiss Federal Institute of Technology, Switzerland

Master in Computational Science and Engineering (CSE) 2015–2018
Bachelor in Physics 2011–2015

ULB, Brussels University, Belgium

Erasmus+ exchange, Physics 2014–2015

Lycée Saint-Michel de Picpus, Paris, France

High school diploma in Sciences 2011

Selected publications

Kibleur, et al.: "Spatiotemporal maps of proprioceptive inputs to the cervical spinal cord during three-dimensional reaching and grasping." IEEE TNSRE 28.7 2020

Sinchuk, et al.: "Variational and Deep Learning Segmentation of Very-Low-Contrast X-ray Computed Tomography Images of Carbon/Epoxy Woven Composites." Materials 13.4 2020

Li, et al.: "The effect of structural changes on the compressive strength of LVL." Wood Science and Technology 2020

Technical skills

Programming: C/C++, Matlab, Bash, Python, CUDA, Basic

Office: LaTeX, Pack Office, Visio

Libraries: Pandas, Scipy, tikz, TwinCAT, OpenSim

Usual environments: Linux, Vim, Jupyter, Atom, Visual Studio

Version control: Git, Team Foundation Server

Academic involvements

Tutoring: Analysis III for physicists 2016

Class representative: CSE section 2015-2016

Languages

English: Advanced (C1)

Russian: Basics (A2)

French: Native speaker

Free time

Rowing
Concert flute
Tenor saxophone