Pierre Kibleur

PhD candidate, engineer in CSE

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Age 28 (Feb 17th, 1993) • French

Experience

Laboratory of Wood Technology, Ghent University, Belgium
Hygroscopic deformation models of wood-fiber composites, from the analysis of time-resolved X-ray microtomography images (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

GTX medical, 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, Lausanne, Switzerland
Master in Computational Science and Engineering (CSE) — 2015–2018
Bachelor in Physics — 2011–2015

ULB, Brussels, 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 — 2020
Sinchuk, et al.: "Variational and Deep Learning Segmentation of Very-Low-Contrast X-ray Computed Tomography Images of Carbon/Epoxy Woven Composites." Materials — 2020
Zigon, et al.: "Treatment of wood with atmospheric plasma discharge: study of the treatment process, dynamic wettability and interactions with a waterborne coating" Holzforschung — 2020

Technical skills

Programming: C/C++, Python, Matlab, Bash, CUDA, Basic
Libraries: Pandas, Scipy, tikz, TwinCAT, OpenSim
Office: LaTeX, Pack Office, Visio
Usual environments: Linux, Vim, Jupyter, Atom, Visual Studio
Version control: Git, Team Foundation Server

Teaching

Supervision: Cell wall chemistry of trees as an indicator of past climate (master thesis) — 2020-2021
Supervision: XYZ cartesian robot for high-resolution imaging of wood disks (master thesis) — 2020-2021
Tutoring: Analysis III for physicists — 2016

Languages

French/English: Fluent
Russian/Dutch: Limited proficiency

Free time

Rowing
Flute and saxophone