

Pierre Kibleur

Ph.D., Engineer in CSE

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French nationality • Driving licence B

Experience

UGCT, Ghent, Belgium

-3D data analyst translating X-ray insight into answers to the questions of industrial and academic contractors. Lecturer on “Advanced applications of deep learning for X-ray CT” 2023-

-Doctoral researcher with a focus on wood fiber-based materials and quantitative image processing. Author of 11 peer-reviewed publications and presenter at 6 international conferences. Supervisor of 3 M.Sc. theses on the topics of precision imaging; deep learning; robotics 2018-2022

Confinis AG, Geneva, Switzerland

Consulting intern assessing the regulatory compliance of newly developed medical devices 2018

University of Fribourg, Fribourg, Switzerland

Research scientist writing a first-author publication 2018

GTX medical, Lausanne, Switzerland

Robotics intern in programming the Rysen body weight support system for gait rehabilitation. R&D delegate at the Delft University of Technology and Motek Medical in Amsterdam 2017

EPFL, Lausanne, Switzerland

Teaching assistant providing support in mathematics for a group of 20 second-year physicists 2016

Education

Ghent University, Ghent, Belgium

Ph.D. Bioscience Engineering; thesis on “4D X-ray micro-tomography investigation of water-induced swelling of wood fiberboards” 2018-2022

EPFL, Lausanne, Switzerland

-M.Sc. Computational Science and Engineering; thesis on “Biomechanical model of the primates’ upper limb: design of stimulation protocols for the recovery of reaching movements in tetraplegia” 2015–2018

-B.Sc. Physics; Erasmus+ exchange at ULB, Brussels 2011–2015

Technical skills

Imaging: X-ray CT, dual-energy CT, chemical doping, SEM, SEM-EDX, macro photography

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

Libraries: Pandas, Scipy, skimage, OpenCV, tikz, TwinCAT, OpenSim, TensorFlow

Software: Dragonfly, Avizo, Fiji, Abaqus, Solid Works, Git

Environments: Linux/Windows, Vim, Atom, Visual Studio, Jupyter, Overleaf

Office: LaTeX, Pack Office, Visio

Selected publications (3/13)

Kibleur, et al.: “Deep learning segmentation of wood fiber bundles in fiberboards” in Composites Science and Technology 2022

Kibleur, et al.: “Detecting thin adhesive coatings in wood fiber materials with laboratory-based Dual-Energy Computed Tomography (DECT)” in Scientific Reports 2022

Sinchuk, Kibleur, et al.: “Geometrical and deep learning approaches for instance segmentation of CFRP fiber bundles in textile composites” in Composite Structures 2021

Languages

English/French: Fluent

Russian/Dutch: Limited proficiency

Hobbies

Competition rowing
Flute and saxophone