

# Luc Vedrenne

Curriculum Vitae

## PERSONAL DETAILS

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*Birth* September 4, 1996  
*Mail* vedrenneluc@gmail.com

## EDUCATION

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**MSc. Computer sciences** 2017-2020  
*IMT Atlantique, Brest*  
Optimization, Information theory, Statistical learning, Computer vision, Programming.

**BSc. Mathematics & Physics** 2014-2017  
*Lycée Kléber, Strasbourg*  
Intensive preparation courses for entrance exams to top French engineering schools.

## PROFESSIONAL EXPERIENCE

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**Phd student** 2022-present  
*ICube, Strasbourg*  
Multiviews registration of highly degraded point clouds using deep learning. Application to SMLM. Advisors: Denis Fortun, Sylvain Faisan.

**Teaching assistant** 2022-present  
*Telecom Physique Strasbourg*  
Image processing (graduate level), reference: Vincent Mazet.  
Random signal processing (graduate level), reference: Celine Meillier.

**Intern** 2020-2021  
*Icube, Strasbourg*  
Detection of isolated particles on fluorescent microscopy (particle picking). Development of a deep learning pipeline in a weakly supervised setup. Reference: Denis Fortun, Etienne Baudrier.

**Intern** 2020-2021  
*Onconeural, Paris*  
Main Pytorch Developer. Cancer detection on CT scans with deep neural network. Reference: Benoit Tinetti.

## CONFERENCES

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**Optimizing failure mode analysis of dental restorative materials: balancing efficiency and accuracy** 2024  
*Cournault, Vedrenne, Teyagirwa, Erkel, Hattenberger, Jmal, Kharouf, Etienne*  
ISBI

**Particle detection based on few shot learning in 3D fluorescence microscopy** 2024

*Vedrenne, Baudrier, Fortun*  
ISBI

**Fast and interpretable unsupervised domain adaptation for FIB-SEM cell segmentation** 2023

*Stenger, Vedrenne, Schultz, Faisan, Baudrier, Naegel*  
ISBI

## **SUBMITTED**

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**Point cloud latent registration** 2024

*Vedrenne, Fortun, Faisan*

**Plug-and-Play Global Initializer for Robust and Efficient Point Cloud Registration** 2024

*Vedrenne, Fortun, Faisan*

## **SKILLS**

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<i>Languages</i>	French (mother tongue) English (advanced)
<i>Software</i>	MATLAB, L <sup>A</sup> T <sub>E</sub> X, PYTHON (PyTorch, Jax).
<i>O.S</i>	Linux