

Nicolas Cedilnik

Cardiac multimodal data science - Biophysics modelling

Bio

- 2017-2020 **PhD in image and signal processing**, Inria
Supervised by [Maxime Sermesant](#) ([Epione research group](#), Inria), it focuses on image based personalization of cardiac electrophysiological models, with an emphasis on ischemic ventricular tachycardia ablation. During this PhD, I designed a deep learning based medical image segmentation method and combined cardiac data from both imaging and electrophysiological studies.
- 2015-2017 **Master in Computational Biology**, [Université Côte d'Azur](#)
During these years, I discovered (and enjoyed) image processing, mainly during an internship in the [Morpheme](#) research group.
- 2014-2015 **Licence in Computational Biology**, [Université Côte d'Azur](#)
In spite of the four validated years in medical studies previously completed, I had to start back in the 3rd year at University in order to be accepted in the master I was aiming at.
- 2006-2013 **Professional Poker Player**, Numerous online poker rooms
An unorthodox occupation that allowed me to pay my bills and even save money. Self-taught, I studied the mathematical and strategic aspects of the poker game with the help of online resources.
- 2002-2006 **Medical Studies (uncompleted)**, Faculté de Médecine de Nice
Although I thoroughly enjoyed studying the fundamentals of human biology and some maths/physics, I progressively lost interest in medical school as basic science gave way to clinical practice.

Languages

- Fluent **French, English, Python**
Basics **HTML, JS, fish, php, L^AT_EX**
Notions **Spanish, Italian**

Scientific Publications

- 2019 [Eikonal Model Personalisation using Invasive Data to Predict Cardiac Resynchronisation Therapy Electrophysiological Response](#). In *10th Workshop on Statistical Atlases and Computational Modelling of the Heart*.
- 2019 [Fully Automated Electrophysiological Model Personalisation Framework from CT Imaging](#). In *Functional Imaging and Modelling of the Heart*.
- 2019 [EP-Net: Learning Cardiac Electrophysiology Models for Physiology-based Constraints in Data-Driven Predictions](#). In *Functional Imaging and Modelling of the Heart*.
- 2018 [Fast Personalized Electrophysiological Models from CT Images for Ventricular Tachycardia Ablation Planning](#). In *EP-Europace*.
- 2018 [SPADE: A Small Particle Detection Method Using A Dictionary Of Shapes Within The Marked Point Process Framework](#). In *IEEE International Symposium on Biomedical Imaging*.
- 2017 [VT Scan: Towards an Efficient Pipeline from Computed Tomography Images to Ventricular Tachycardia Ablation](#). In *Functional Imaging and Modelling of the Heart*.