

# Yann Fleureau

CS Engineer and Medtech Entrepreneur

born November, 23rd 1989 in France

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## Entrepreneurship

### ■ Experience

#### Cardiologs

co-founder & CEO

2014 - Present

[cardiologs.com](http://cardiologs.com)

Cardiologs Technologies is a digital medtech startup which develops a cloud-based, **medical-grade artificial intelligence** for massive heart screening. Cardiologs is currently focused on solving ECG analysis.

- Built proprietary dataset of 600,000+ cases
- Raised \$10M in funding
- Built team of 18, including 14 engineers and research scientists
- First company in history to have received regulatory approval (CE mark, August 2016) for a clinical decision support based on deep learning technology. Cardiologs received FDA clearance in June 2017.
- Cardiologs AI is trained and approved to detect 100+ ECG biomarkers in Europe (cleared for 14 ECG biomarkers in the US)
- Cardiologs has contributed to diagnostics of ongoing heart attacks and detection of sudden death biomarkers since its approval for commercialisation (beta program).
- 1 international patent in PCT, multiple international patents filed

### ■ Awards

#### Laureate of the Concours d'Innovation numérique (2017)

€700,000 non-dilutive seed money

#### Laureate of the Fellowship of the Ecole Polytechnique

Prize (2015) €20,000 non-dilutive seed money

#### Laureate of the Worldwide Innovation Challenge (2014)

Big Data track - €150,000 non-dilutive seed money

#### Winner of France is AI (2017)

First French company admitted to join Stanford's StartX acceleration program

#### Laureate of the Scientipôle Initiative Prize (2015)

€90,000 non-dilutive seed money

#### Laureate of the Gerondeau - Zodiac Aerospace

Prize (2014) €15,000 non-dilutive seed money

### ■ Press and publications

#### Deep neural networks improve atrial fibrillation detection in Holter: first results (2016)

J Li, J Rapin, A Rosier, S W Smith, Y Fleureau and P Taboulet

<http://journals.sagepub.com/doi/full/10.1177/2047487316668070>

#### Improved Interpretation of Atrial Dysrhythmias by a New Neural Network ECG Interpretation Algorithm (2017)

S W. Smith, J Rapin, J Li, B M. Walsh, A Rosier, L Fiorina, K W. Dodd and P Taboulet

<https://onlinelibrary.wiley.com/doi/epdf/10.1111/acem.13203>

**Les Echos** Cardiologs va traquer les arythmies cardiaques aux Etats-Unis

**L'Usine Nouvelle** Décrypteur d'électrocardiogrammes: Yann Fleureau, PDG de Cardiologs Technologies

**Cardiacrhythmnews** US FDA clears Cardiologs ECG analysis platform

**Journal du Dimanche** Cédric Villani : "L'intelligence artificielle va bouleverser notre quotidien avec discrétion"

**Sciences et Avenir** Cardiologs : un algorithme pour détecter les pathologies cardiaques

**Patent WO2017072250** An automatic method to delineate or categorize an electrocardiogram

# Education and pro-bono activities

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## ■ Experience

### X-Up

Jury and mentor  
2016 - Present

X-Up is the acceleration programme of the Ecole polytechnique. Since its creation in 2015, X-Up has accelerated more than 50 start-ups

- Member of the jury
- Advisor of several digital health start-ups, including Myndblue, Healsy,

### UC Berkeley

SVIEP  
2013

The SVIEP (Silicon Valley Innovation and Entrepreneurship Program) is a program developed by the Lester Center for Entrepreneurship aiming to coach engineers and scientists developing tech start-ups.

- Founder & CTO @Twin: Twin was a web search engine for 3D models originally designed to detect IP infringement. Twin pivoted to a 'Google for 3D models' targeting the emerging 3D printing market. Twin did not survive customer discovery phase in both cases.

### Ecole polytechnique

MSc  
2010-2014

The Ecole polytechnique is the French leading engineering school, which I joined after three years of Mathematics and Physics prep class.

- Courses taken include: CS, Math, Biology & quantum physics.
- Majoring in CS and Biology.
- President of the Junior Entreprise (20 students, €100,000 in sales)

## ■ Awards and honors

**Ecole polytechnique - Outstanding investment** The « OI » rewards outstanding extra-academic investment at the Ecole polytechnique.

**Ecole polytechnique - Outstanding leadership** The « OL » rewards outstanding leadership demonstrated during military, sports, academic or extra-academic activities at the Ecole polytechnique. 4 students out of 500 cumulated OI and OL honors in the class of 2014.

**ENSTA - Short stories contest** Annual writing contest, story awarded as one of the 10 best stories