



# Diana Khalipina

👤 28 years  
📍 Paris, France  
🗨 Languages: English, French

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## EDUCATION

- 2017-2019 **M2 Biomechanical engineering**  
ÉCOLE POLYTECHNIQUE · Paris, France  
📍  
Modeling of biological systems and their control; determination of passive and active mechanical properties of embryonic tissues
- 2016-2017 **M1 Advanced Materials Engineering, Physics track**  
CENTRALESUPÉLEC · Paris, France 📍  
Determination of materials' physical properties
- 2013-2016 **Bachelor in biotechnical systems and technologies**  
BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY · Moscow, Russia 📍  
Electrical engineering, image analysis, medical software and hardware development
- 2019-2015 **Engineering degree**  
BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY · Moscow, Russia 📍  
Continuous training in mechanical engineering focused on vehicles, transport and production management

## WORK EXPERIENCE

- 2019-now **Educational engineer and designer**  
VITTASCIENCE · Paris 📍  
Creation of the training resources for arduino and micro:bit programming, design of educational resources and hardware
- 2019-now **Independant engineer**  
WEB DEVELOPMENT AND DESIGN · Paris 📍  
Creation of digital solutions, security provision, design development and 3D modeling
- 2018 **Matière Systèmes Complexes (MSC)**  
UNIVERSITÉ PARIS DIDEROT · Paris, France 📍  
Determination of passive and active mechanical properties of embryonic tissues
- 2016-2017 **MSSMat lab**  
CENTRALESUPÉLEC · Paris, France 📍  
The study of the structure-properties relationship of human dentine, image and data processing
- 2015-2016 **Cardiolab CAVE-lab**  
UNIVERSITÉ D'AARHUS · Aarhus, Danmark 📍  
Optimization of in vitro models of studies on cardiac valves, realization of experiments on aortic valves with blocked and intact sinuses of Valsalva, creation of devices for cardiac contractions

## CONFERENCES AND PUBLICATIONS

- Sep. 2019 "Smooth muscle contractility causes anisotropic growth of the intestine", at: *Royal Society Journal* in London, 2019.
- Jul. 2017 Project presentation "Structure-properties relationship in human dentin in 3D models" *SFBD conference (Societe francophone des biomateriaux dentaires)* in Paris.
- Feb. 2016 "Poster presentation "Optimization of an in vitro model for research on heart valves", at: *26th scientific meeting Meeting of the Scandinavian Society for Cardiothoracic Research Surgery (SSRCTS)* in Norway.
- Sep. 2015 "Poster presentation "Development of a new in vitro model for endoscopic research of pig hearts", at: *Dansk Medicoteknisk Selskab* in Danmark.

## COMPETENCES

- Hardare** Arduino, Micro:bit, Raspberry Pi
- Software** MIT App Inventor, LabView, Matlab, Comsole
- Mechanics** Solidworks, Autocad
- Languages** Python, C++, HTML5, php
- Design** Photoshop, Illustrator, Canva
- ★★★★★ Engineering
- ☆★★★★ Design
- ★★★★★ Web development
- ☆★★★★ Analysis
- ★★★★★ Hardware
- ☆☆★★★★ Coding