

Rémy Petkantchin

Place du Nord 6
1005 Lausanne, Switzerland
☎ +41(0) 78 918 86 22
✉ remy.pet@gmail.com

26 years old - [PetRem Labs](#) - Scientist - Programmer - Coach

Experience

- May 2020 - **Independent Game Development**, *Unity*, PC, Mac, Linux, Android.
- January 2021 Created and published the video-game **SUKAKKO** on Desktop and Android.
- November 2018-Now **PhD student in Computer Science**, *University of Geneva*, Geneva, Switzerland.
Research on the European INSIST project, on ischemic stroke disease, using computational fluid dynamics. Improvement of the worldwide-used, home-made software **Palabos**.
- February 2018 - **Physics Master thesis**, *Università degli Studi di Trieste*, Trieste, Italy.
Master thesis in computational biophysics, morphogenesis and physics of cancer.
- August 2018
- September 2017 - **Physics internship**, *Lausanne University Hospital*, Lausanne, Switzerland.
Internship in the Medical Imaging Group of the Institute of Radiophysics of the Lausanne University Hospital.
- January 2018
- September 2017 - Now **Water-polo coach**, *Lausanne Natation*, Lausanne, Switzerland.
Water-polo coach for the groups : Water-polo school, U15 and U17 at *Lausanne Natation*.
- October 2016 **Junior Project Analyst**, *Philip Morris International*, Lausanne, Switzerland.
- September 2017 Worked part-time during master studies at Philip Morris International as a Junior Project Analyst. Main tasks were project support, creating new tools (mainly Excel and Web), and project analysis.
- July 2016 - **Summer job**, *Philip Morris International*, Lausanne, Switzerland.
- September 2016 Summer job at Philip Morris International in the Supply Planning service in Duty Free. Data analysis and Excel programming.
- July 2015 - **Summer job**, *Philip Morris International*, Lausanne, Switzerland.
- August 2015 Summer job at Philip Morris International in the Supply Planning service in Duty Free. Web and Excel programming.
- September 2014 - June 2015 **Teaching Assistant**, *EPFL*, Lausanne, Switzerland.
Teaching assistant in physics and C++ programming for first year students at École Polytechnique Fédérale de Lausanne.
- April 2013 - **Computer science Internship**, *CEA*, Cadarache, France.
- July 2013 Graduation internship at *Commissariat à l'Énergie Atomique* in Cadarache. Work consisting in the enhancement of a tool in C++.
- Juin 2012 - **Automated trading strategies development**, *SKIA*, Célony, France.
- Mars 2013 Automated Forex trading strategies development in EASYLANGUAGE at Systematic Knowledge Investment Advisers Ltd.
- 2009 to 2016 **Image editing of Comic books**, Aix-en-Provence, France.
(occasionally)
Image editing and edition of 2 comics, using Photoshop.

Skills

Computer Science

Object Oriented Programming	C++, Java, Python, C	Machine learning	Deep learning, Reinforcement learning, TensorFlow
Analysis	Matlab, VBA, Excel, Mathematica	Databases	SQLplus, PL/SQL, MCD, MCT
Video-game	Unity	Image and Art	Photoshop, GIMP, Inkscape
Smartphone programming	Android	Others	C Language, Arduino, GNU/Linux, EASYLANGUAGE, Git, L ^A T _E X

Languages

French	Mother tongue
English	Fluent (working experience), TOEFL iBT score of 109/120
Italian	Fluent (6 months of master thesis in Trieste, Italy)
Spanish	Fluent (one year <i>Erasmus</i> exchange in Granada, Spain)
Bulgarian	Fluent
German	Notions (A2 level)
Japanese	Notions (A1-A2 level)

Education

- 2018 **Master Degree in Physics**, *Swiss Federal Institute of Technology, Lausanne (EPFL)*, Switzerland.
- 2017 **Youth Sports Coach**, *Water Sports*, Switzerland.
- 2016 **Bachelor in Physics**, *Swiss Federal Institute of Technology, Lausanne (EPFL)*, Switzerland.
- 2014 **Aid certificate**, *BLS-AED and Pool Plus*, Lausanne, Switzerland.
- 2013 **Associate Degree in Computer Science**, *Aix-Marseille University*, France.
- 2011 **Scientific Baccalaureate**, *Engineering Science option*.

Interests

Scientific	Participation to the International Physicists' Tournament 2014 with the Swiss team.
Sport	Water-Polo (international level) from 2006 to now, Champion of the Andalucian league 2014-2015, raised an academic Water-Polo team with Aix-Marseille university and won academic French Championship in 2011-2012, award of best sportsman of my High School in 2009, 3 rd place France Water-Polo Championship U18 with Aix-en-Provence team in 2009, team of Provence for 2 years (2007 and 2008).
Programming	Modelling and video-games petremlabs.com
Video games	Longstanding gamer, I like to follow the video games business during my spare time.