

Jérémie KALFON

Phone +33 652663443

Email jkobject@gmail.com

Website jkobject.com

LinkedIn www.linkedin.com/in/jkobject

Github www.github.com/jkobject

Twitter @jkobject

Address 2 Leighton street, 02141

Cambridge, MA, USA

Profile

Computational Biologist and Engineer. co-Founder of PiPle, I am keen on project management and development. Highly independent, I am interested in improving Genomics & Biomedical research using Data Science and Machine Learning. I am now an Associate at the Broad Institute of MIT and Harvard.

Skills

Team Work

Data Science	•	•	•	•	•
Imaging	•	•	•		
Neuroscience	•	•			
Comp. Sci.	•	•	•	•	
Full Stack dev.	•	•	•		
Maths & Stats	•	•	•	•	
Genomics	•	•	•	•	
Electronics	•	•			
English				•	

Education

Harvard University CAMBRIDGE, USA 2019-202

Graduate Certificate in Biology

University of Kent Canterbury, UK 2017-2018

Master of Science. Machine Learning

ECE ParisPARIS, FRANCE2013-2018Tec de MontereyQUERETARO, MEXIQUE2014

French Diplôme d'ingénieur, Biomedical Engineering

Experience

Broad Institute of MIT and Harvard - Asc. Computational Biologist II

CAMBRIDGE, USA

2019 -

 CCLE (DepMap), Predicting cancer dependencies from genetic sequences of cancer cell lines.

ML, BIG DATA, GENOMICS

 AMLproject, deciphering AML from deep epigenetic profiling, with Dana Farber Cancer Institute & Boston Children's Hospital
 ML, BIG DATA, GENOMICS

PiPle - co-Founder - CEO

PARIS, FRANCE

2016 -

 Co-Founder of PiPle, A startup focused on bringing the next generation communication platform. PiPle. INSEEC incubator PROJECT DEV, ENTREPRENEUR

Simons Foundation, Flatiron Inst. - Research Associate

NEW YORK, USA

Member of the CalmAn project, Neural spike inference from calcium imaging. Flatiron Institute under the supervision of Dmitri Chklovskii

 DESEARCH IMAGING MI VISION

2017

University of Kent - Master Thesis

• Developed PyCUB, Master Thesis in ML for the analysis of the Codon Usage Bias across kingdoms.

ML, BIG DATA, RESEARCH, GENOMICS

HighLife Med - R&D

 Stage à HighLife Med, A Parisian Biomed. Startup developing the world's first no-surgery mitral heart valve replacement.

SIMULATION, DATA ANALYTICS

2015

Interests















Associations

President of NoLarsen music Festival 2016.

Music Society

HighSchool & College private teacher during 2 years

Teaching Society

Publications

- A distinct core regulatory module enforces oncogene expression in KMT2A-rearranged leukemia, J. Kalfon, T. Harada, Y Heshmati, (Preprint) doi: https://doi.org/10.1101/2021.08.03.454902, 2021
- Transcriptional plasticity drives leukemia immune escape, K Eagle. T. Harada, J. Kalfon, (preprint on request), 2021
- Repeat expansions confer WRN dependence in microsatellite-unstable cancers, N. Wietmarschen, S. Sridharan, W. J. Nathan,... Nature, 2020.
- VPS4A is a synthetic lethal target in VPS4B-deficient cancers due to codeletion with SMAD4, J. E. Neggers, B. R. Paolella, A. Asfaw, M.
 V. Rothberg, T. A. Skipper, Cancer Research, 2020.
- CalmAn: An open source tool for scalable Calcium Imaging data Analysis, A. Giovannucci, J. Friedrich, P. Gunn, J. Kalfon, S. Ann Koay,, eLife, 2018. https://doi.org/10.7554/eLife.38173,
- Hidden Patterns of the Codon Usage Bias across kingdoms, Y Deng, J. Kalfon, T Von der Harr, D. Chu, RSIF, 2019. https://doi.org/10.1098/rsif.2019.0819,
- Master Project, PyCUB, python package for the kingdom-level analysis
 of the codon usage bias, 2018
 https://github.com/jkobject/pycub/blob/master/docs/PyCUB.pdf,
- Broad retreat, Poster Session presentation, on the analysis of AML specific super enhancer and AML dependencies. 2019. https://jkobject.com/projects/predicting-dependencies-from-enhancers/.

Side Projects

- Human Brain Project, 2017 conference, attendee. 2017
- VCF2Ancestry, hackaton project, 3 days to predict ancestry from population scale mutation profile. 2017. https://github.com/jkobject/VCF2Ancestry/

Awards

- ECE innov' Awards, 2nd Place for the PiPle project, innovative Chat app introducing the concept of message-mapping. 2017
- Berger-Levrault Innovation Awards, 2nd Place for the PiPle project, innovative Chat app introducing the concept of message-mapping. 2017