

CONTACT INFOS

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- github.com/tvauss

PhD in molecular and cellular biology, recently certified data scientist with expertise in virology, monogenic diseases, medium & high-throughput screening, statistical and data analysis supported by achievements and recommendations (written and online (LinkedIn)).

Seeking for a **position as a junior data scientist** in **Belgium, Netherlands, Northern France, Paris or remotely** with EU-based or EU-associated companies or NGOs.

Fluent in French (Native) **and English** (C2). Basic knowledge in Dutch (A1).

ACHIEVEMENTS

1. 1 deep learning classification project (github.com/tvauss/TV1_ODIR19),
2. 12 peer-reviewed publications (with 3 first and co-first authorships),
3. 1 review (PMID: 20932226),
4. 1 patent (WO2013156957A1, 2013),
5. 6 oral and 5 poster presentations (national & international symposiums),
6. 2 individual fellowships (French Ministry of Higher Education and Research & French national agency for research on HIV and viral hepatitis (ANRS)),
7. 1 call for proposals (Horizon Europe, 400k€ for the company),
8. 2 emergency projects related to pandemic and viral outbreaks (EbolaVirus 2014, SARS-CoV2 2020) completed within 6 months to 2 years, leading to 2 publications (PMIDs: 26284260 & 35587469) & one phase 2/3 clinical trial (Therapide - EUDRACT 2021-000045-41).

EDUCATION AND TRAINING

- **Training in data science - Datascientest**¹ **2022 (400 hours)**
Mines ParisTech / PSL, Executive Education - Paris, France
Development of an AI-based Ocular Diseases Intelligent Recognition Model (Tensorflow Xception) to classify ophthalmic diseases based on patient's eye fundi (3500 patients).
- **Ph.D. in Molecular and Cellular aspect of Biology**^{2, 4, 5, 6} **2011-14**
University of Lille - France
Thesis: "Characterization of the antiviral activity of 4-aminoquinoline derivatives on Hepatitis C Virus"
- **M.S. in Biology and Biotechnology**³ **2011-14**
University of Lille - France
Thesis: "Regulatory T cells : a new reservoir for HCV replication?"

WORK EXPERIENCE

- **Research Scientist - Project leader**^{2, 5, 7, 8} **07.2020 - 03.2023**
Apteeus, Lille - France
- **Research scientist - postdoctoral fellow**^{2, 8} **07.2018 - 06.2020**
Center for Infection and Immunity of Lille - France
- **Research scientist - postdoctoral fellow**^{2, 5, 8} **01.2014 - 05.2018**
Icahn School of Medicine at Mount Sinai - New York, NY, USA
- **Junior scientist - Ph.D. student**^{2, 4, 5, 6} **01.2011 - 01.2014**
Center for Infection and Immunity of Lille - France

SKILLS

- **Datascience:**
Programming (Python, Numpy, Pandas) | Data visualization (Matplotlib, Seaborn, Bokeh) | Machine learning (statsmodels, Clustering, Regression, Text Mining, NetworkX, Scikit-learn) | Big Data (PySpark, SQL, Data Processing, Dimensionality reduction, Time Series Analysis, Network Analysis) | Deep Learning (KERAS, CNN, RNN, Tensorflow)
- **Science:**
Statistics & statistical analysis (SSMD, Z', Robust-Z-score, RSA analysis) | Bioinformatics (Ingenuity) | Drug combination studies (isobolograms, Prichard & Shipman, combination index) | Development, Miniaturization & Automation of medium and high throughput screens | Virology (Virus & retroviral pseudotyped particles production, minigenome assay, viral rescue & drug-resistant selection) | Molecular biology (cloning, RT-qPCR) | Genomic, proteomic & transcriptomic
- **Others:**
Proven adaptability to differing cultural & business environments | Eager learner with record track of continuing education and skills acquisition | Efficient team & project management even under time-pressure | Proven records of collaborative work | Confirmed communication and interpersonal skills allowing to adapt to broad range of audience (public to expert) | Autonomous, yet team-player who better thrive in a culturally and professionally broad and diverse environment