JOSEPH D VIVIANO

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EXPERIENCE

Fellow 2021-Now

PhD to VC, Fifty Years &

- Hands on experience with sourcing strong deep-tech companies ready for seed or pre-seed investment, performing due diligence.
- Training on the economics of VC and how to support founders.

Applied Research Scientist

2020-Now

Mila Technology Transfer, Mila Quebec Al Institute &

- Research on medical applications, ethical language models, and biologically-inspired AI.
- Forgery detection project with emphasis on out of distribution generalization.

Research Intern 2020

Google, Smart Ad Relevance System Predicted Click Through Rate Team ♂

Uncertainty estimation for predicted click through rates (pCTR).

Research Intern 2019–2020

Mila Quebec Al Institute 🗗

• Explainable AI research whether saliency can be relied on to diagnose generalization failures &.

Research Intern 2019

Imagia Cybernetics &

• Cancer localization without segmentations, and multimodal classification combining images with clinical notes.

Research Methods Specialist 2014-17

Kimel TIGRlab, Centre for Addiction and Mental Health &

- Developed two published machine learning tools that identify vulnerable schizophrenia & and Alzheimer's & patients.
- Managed the design & implementation (team of 5) of a data management platform 2 and quality assurance tools 2 used by team of 20.

Data Analyst 2013–14

CANN Lab, York University &

Biomarker of reduced executive function in aging ♂.

Graduate Student 2011–13

Schneider Lab, York University &

• MRI of the human visual input @ and feedback @ systems.

RESEARCH

Publications: I'm an active researcher \square with an h-index of 12.

Precision Medicine: Biomarker development for patient-tailored treatments.

Deep Learning: Representation learning for robust and explainable models, multimodal learning, attention mechanisms.

EDUCATION

MSc. Computer Science, Machine Learning Specialization 2018-20

Mila, Université de Montréal, Montréal, QC

MSc. Biology, Neuroscience Specialization, With Distinction 2011-13

York University, Toronto, ON

BSc. Psychology, Hons. 2005–09

Queen's University, Toronto, ON

TECHNOLOGIES

Python Proficient Numpy, scipy, pandas, scikit-learn, pytorch, tensorflow.

MATLAB Intermediate
R Intermediate
Unix Administration Intermediate

Webservers, virtualisation, & containerisation.

C Familiar
Java Familiar
SQL Familiar

TEACHING

Introduction to Deep Learning 2019

McGill BrainHack Summer School & MAIN Conference Workshop

Python for Neuroimaging 2015

Centre for Addiction and Mental Health

EXTRACURRICULAR

Deep Learning Specialization 2018

deeplearning.ai, Coursera

Certified System Administrator 2016

Linux Foundation

High Performance Computing 2014-16

SciNet, University of Toronto