Joseph Boyd

Deep Learning Specialist

British Citizen
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EXPERIENCE

PARIS, FRANCE — JAN 2021 – DEC 2023

CentraleSupélec

Postdoctoral Researcher

Research and prototyping novel deep learning systems for medical imaging with self-supervision, generative models, and transformers. HPC with PYTHON and PyTorch.
2nd Best Paper at ICCV workshop CDpath 2021
Ref: Dr. Maria Vakalopoulou maria.vakalopoulou@ecp.fr

PARIS, FRANCE — OCT 2016 – JUN 2020

PSL Paris Sciences & Lettres University

Doctoral Researcher

Novel applications of machine learning, domain adaptation and object detection for single-cell phenotyping in bioimage drug screen. TA/lecturer in machine learning.
Manuscript: pastel.archives-ouvertes.fr/tel-02928984
Ref: Dr. Chloé Azencott · chloe-agathe.azencott@curie.fr

GENEVA, SWITZERLAND — FEB 2015 – JUL 2015

CERN CERN

Master Thesis Intern

Feature engineering for the NLP task of automatic metadata extraction in a Java-based tool.
Manuscript: cds.cern.ch/record/2039361
Ref: Dr. Gilles Louppe · g.louppe@uliege.be

GENEVA, SWITZERLAND — JUL 2014 – SEP 2014

UN International Computing Centre

Summer Intern

Survey, design and configuration of management "dashboard" using business intelligence (BI) softwares.
Ref: Mr. Djamel Kacel · kacel@unicc.org

BRISBANE, AUSTRALIA — NOV 2010 – AUG 2013

AECOM AECOM

Mathematician

Consultant and supply-chain simulation programmer.
Ref: Mr. Prabhakar · susheel.prabhakar@aecom.com

EDUCATION

2016 – 2020 — **Doctor of Philosophy**
Bioinformatics
PSL · *France*

2013 – 2015 — **Master of Science**
GPA: 5.43(/6)
Computer Science
EPFL · *Switzerland*

2007 – 2010 — **Bachelor of Science**
GPA: 6.375(/7)
Mathematics / IT
QUT · *Australia*

SKILLS

CODING	PYTHON, C++, MATLAB, SQL
PYTHON	TensorFlow, PyTorch, NumPy scikit-learn, scikit-image
AI/ML	Computer vision, deep learning, generative models, transformers object detection, segmentation
DEVOPS	Docker, git, conda, BASH
LANGUAGES	English, French, Spanish

https://github.com/jcboyd

SELECTED PUBLICATIONS

Boyd, J. et al. (2023). *Structured State Space Models for Multiple Instance Learning in Digital Pathology*. **MICCAI 2023**.

Boyd, J. et al. (2022). *Region-guided CycleGANs for Stain Transfer in WSIs*. **MICCAI 2022**.

Boyd, J. et al. (2021). *Self-Supervised Representation Learning using Visual Field Expansion on Digital Pathology*. **ICCV 2021**.

scholar.google.com/citations?user=fvzFcqYAAAAJ

AWARDS

2nd Best Paper at ICCV Workshop CDpath 2021

CVPR 2023 outstanding reviewer award

QUT Dean's Merit Award 2008, 2009, 2010.