

Frida de Sigley

Data Science · Machine Learning · Computer Vision

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'As confident with command prompt as I am with people'

Education

The University of Stirling

Scotland

MSc, Artificial Intelligence <Distinction>

2020-2022

Dissertation Specialism: Computer Vision <Vision Transformers>

- Designing, training and tuning state of the art deep learning and computer vision models using PyTorch, TensorFlow and Keras;
- Domain Adaptation of current state of the art models and open-source code on GitHub;
- Representing and manipulating data using Python in (CSV, XML and JSON) formats as well as leveraging REST-full APIs and Web-crawling;
- Machine Learning from structured and heterogeneous data using state of the art deep learning models;
- Writing object-oriented software, CLIs and APIs to automate data processing, cleaning model and hyper-parameter tuning.

The Glasgow School of Art

Scotland

BA(Hons.), Fine Art Photography <1st Class>

2007-2011

Dissertation Specialism: <Structural Linguistics & Semiotics>

- Technical understanding of digital imagery and production within the domain of image quality and aesthetics;
- Analytical and innovative thinking in applying conceptual frameworks to problems;
- Ability to construct and communicate arguments verbally, visually and in writing.

The University of Glasgow

Scotland

Art Psychotherapy, Introduction

2015

- Facilitating group discussion and an understating of group dynamics;
- Using images, imagery and ideation to enable communication;
- Ability to understand and apply psychological concepts within a group setting.

Skills

Machine Learning Libraries:

TensorFlow, PyTorch, OpenCV, Scikit-Image, Scikit-Learn, NumPy, Pandas.

Computer Vision Models:

Vision Transformers, Convolutional Neural Networks.

Machine Learning Algorithms:

Multi Layer Perceptions, Logistic Regression, Random Forest, K Means Clustering.

Programming Languages:

Python, R, BASH, learning C++

Cloud/ Platforms:

Kubernetes, Docker, AWS

Markup Languages:

CSS, HTML, LaTeX.

Professional Experience

The University of Stirling

[<stir.ac.uk>](http://stir.ac.uk)

(Unpaid and as Non-Employee)

Stirling, Scotland

2022

- SoTA Deep Learning for Computer Vision;
- Knowledge of computer vision libraries \in {OpenCV, Kearas, TensorFlow and PyTorch};
- Producing computer vision conference paper with academic supervisor.

The Scottish Refugee Council

[<scottishrefugeecouncil.org.uk>](http://scottishrefugeecouncil.org.uk)

Refugee Integration Services Manager

Glasgow, Scotland

Apr. 2019 - Oct. 2020

- Data analytics for business intelligence, project management and monitoring outputs;
- Developing Salesforce database for recording and reporting client records;
- Organisational lead on Scottish government strategy and evidence groups.

The British Red Cross

[<redcross.org.uk>](http://redcross.org.uk)

Refugee and Family Integration Manager

Glasgow, Scotland

Dec. 2016 - Apr. 2019

- Data analytics for service modelling, development and report writing;
- Managing mixed methods research into customer experiences of accessing services;
- Database development for research, reporting and policy objectives.

The British Red Cross

[<redcross.org.uk>](http://redcross.org.uk)

Refugee Support Casework Coordinator

Glasgow, Scotland

Dec. 2012 - Dec. 2016

- Developing a bespoke service for refugee families arriving in the UK;
- Partnership working to develop effective workflows and referral mechanisms;
- Applied understanding of public policy.

Talks & Presentations

Scotland's AI Strategy

Presenter for <AI Strategy Group>

Online, Scotland

June. 2021

MBN Solutions

Panelist <Pride in the Technology and Data Industries>

Online, Scotland

June. 2021

The British Red Cross

Families Together Conference <Developing a Service Model from Data>

London

Sep. 2019

Honors & Awards

2020 Full Fee DataLab Scholarship, The DataLab Scotland

Research (Author) _____

Transforming Vision:

[A Review of Transformers for Image Aesthetic Quality Assessment](#) *Forthcoming, 2022*
<International Conference on Image Analysis and Processing (ICIAP)>

Research (Editorial Input) _____

Can't Stay. Can't Go:

[Refused asylum seekers who cannot be returned](#) 2019
<The British Red Cross>

Voices of Strength and Pain:

[Impacts of separation, loss and trauma on reuniting refugee families](#) 2018
<The British Red Cross>

We Started Life Again:

[Integration experiences of refugee families reuniting in Glasgow](#) 2015
<The British Red Cross>

Open Source Contributions _____

Binary Classification Domain Adaptation of Vision

Transformer Code:

[Convolution vision transformers code](#) 2021
<Meta AI>

Guidance For Running Docker CNN on Non GPU Hardware:

[CNN image quality assessment](#) 2021
<Idealo>

Adding functionality and notebook compatibility to software

[Restormers](#) 2021