

Iman Malik

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Montréal, QC

I am an applied research scientist with an understanding of computer science fundamentals and a passion for creative projects.

EXPERIENCE

ELEMENT AI

APPLIED RESEARCH SCIENTIST
Mar 2018 - Present

UNIVERSITY OF BRISTOL

RESEARCH ASSISTANT
Jul 2017 - Oct 2017

JP MORGAN CHASE & CO.

TECHNOLOGY SUMMER ANALYST
Jun 2016 - Aug 2016

RBC CAPITAL MARKETS

TECHNOLOGY SUMMER ANALYST
Jun 2015 - Aug 2015

EDUCATION

UNIVERSITY OF BRISTOL

MENG COMPUTER SCIENCE
Oct 2013 - Jun 2017
First Class Honours ~ GPA 4.00

A-LEVEL/IGCSES

SELF-TAUGHT IN SAUDI ARABIA
Sept 2009 - June 2013

VOLUNTEER WORK

DIGIMAKERS

UNIVERSITY OF BRISTOL
July 2017 - Oct 2017

These workshops aim to inspire young children by providing an introduction to Computer Science.

SCHOOL TUTOR

TEHAMA INTERNATIONAL SCHOOL
Sept 2011 - Jun 2013

I supported IGCSE and A-Level students by teaching and providing one-on-one tuition.

PUBLICATIONS

MALIK I & Ek C

Neural Translation of Musical Style
NeuRIPS Machine Learning for Creativity and Design Workshop 2017
[arXiv:1708.03535](https://arxiv.org/abs/1708.03535)

BODIN E, MALIK I, CAMPBELL N. & Ek C

Nonparametric Inference for Auto-Encoding Variational Bayes
NeuRIPS Approximate Inference Workshop 2017
[arXiv:1712.06536](https://arxiv.org/abs/1712.06536)

PATENTS

MALIK I, MELANÇON, G, GHARBIH, W, SNELGROVE, X *UNDER REVIEW*
Full Stack Uncertainty Quantification (2019)

RECENT PROJECTS

UNCERTAINTY QUANTIFICATION

ELEMENT AI

Jan 2019 - Current

Researching and implementing methods of measuring uncertainty of models in isolation or end-to-end.

"SPECTROSPACE"

ELEMENT AI

May 2018 - Oct 2018

Researched and implemented latent space visualisation algorithm for Augmented Reality goggles. Live demo is available [here](#).

DATA AUGMENTATION USING GENERATIVE ADVERSARIAL NETWORKS

ELEMENT AI

May 2018 - Aug 2018

Research and development of CycleGANs for reducing data scarcity for specific use-cases.

INTERPRETABILITY OF VARIATIONAL AUTO-ENCODERS

SUPERVISED BY DR. CARL HENRIK EK

March 2017 - Dec 2017

Research on enhancing the interpretability of Variational Auto-encoders. Work presented at NeuRIPS Approximate Inference Workshop (2017).

FINAL YEAR MASTER'S PROJECT

SUPERVISED BY DR. CARL HENRIK EK

Jan 2017 - May 2017

Research on learning musical style through the dynamics of music. Blog available [here](#). Work presented at NeuRIPS Machine Learning for Creativity and Design Workshop (2017).

TECHNICAL SKILLS

EXPERIENCED

Python • Tensorflow • PyTorch • Bash • HTML & CSS
• JavaScript • \LaTeX • Matlab • Pandas

FAMILIAR

C/C++ • Ruby • Haskell • Java (+ Android SDK) • OpenCL
• MPI • OpenMP • OpenCV (C++/Python)

ACHIEVEMENTS

2016 Top marks in Computational Bioinformatics and Computer Graphics.

2014-16 E&D Officer of the Computer Science Society.

2014 Selected for the Schlumberger Women in Technology programme.

2013 Started university at the age of 17

TALKS

MONTRÉAL ALL-GIRL HACK NIGHT

Invited Speaker
Talk on "AI + Music".

PYDATA CONFERENCE (WARSAW 2017)

Invited Speaker
Talk on "Neural Translation of Musical Style".

COMSM0018 DEEP LEARNING UNIT

Invited Speaker
Talk on "Neural Translation of Musical Style".