

## British Council Virtual UK Masterclass Series

1 - 5 February 2021

### TECHNOLOGY



**Dr Alex (Aram)  
Ter-Sarkisov**

Lecturer in Artificial  
Intelligence

**City, University of  
London**



**Dr Michał Król**

Lecturer in Cyber Security

**City, University of  
London**



**Kaliegh Branham**

BA (Hons) Games Art and  
Design lecturer

**Norwich University of  
the Arts**

### Masterclasses in Technology and related subjects

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The UK has a long history as the world leader in applying discoveries, pioneering new ideas and technology. The UK is also one of the five countries leading on industry-university collaboration and introduce real-life application. Join Masterclasses in Technology subjects to expand your understanding and learn new skills in technology and science from UK's world-class universities.

**Webinar #1: Artificial Intelligence – breakthrough applications. Case study:  
Analysis of Chest CT Scans for the Prediction of COVID-19**

Date: Tuesday 2 February 2021

Time: 15:00 – 16:00

Presenter: Dr Alex (Aram) Ter-Sarkisov, Lecturer in Artificial Intelligence,  
City, University of London

### **Presentation content:**

- MSc in AI at City, University of London is one of the most advanced Artificial Intelligence programs in the UK that includes courses in the Foundations of AI, Computational Cognition, Deep Reinforcement Learning, Explainable AI, Deep Learning for Computer Vision (CV) and Natural Language Processing (NLP) and Mathematics of AI.
- The program is run by the CitAI Research Center experts (<https://cit-ai.net/>) that have an extensive experience across a wide range of subjects, including Artificial General Intelligence, Reinforcement Learning, Brain-Inspired AI, AI Ethics, CV, NLP, mathematical foundations of AI and applications of AI to real-life problems in variety of fields (e.g. healthcare, robotics, etc).
- MSc in AI requires a sound knowledge of Python and involves coding of deep neural networks and other AI models on GPUs at CitAI's state-of-the-art AI lab.
- An example of an application of these models during the COVID-19 pandemic is the prediction of this condition from chest CT scans and the detection of various types of lesions using deep neural networks.

### **Presenter profile:**

Dr Ter-Sarkisov is a lecturer at City, University of London where he teaches courses on Artificial Intelligence. He received his PhD in computer science from Massey University Palmerston North, NZ and holds an MSc in Statistics from the University of Auckland Auckland, NZ. He worked as a postdoc at TU Dublin Dublin, Ireland, On Deep Learning for Cattle Tracking, Université du Maine Le Mans, France, on Neural Network Language Models and at University of Waterloo Waterloo, ON, Canada working on Hand gesture recognition.

[Why study Artificial Intelligence at City, University of London](#)  
[Teaching and learning updates in this current situation](#)

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## **Webinar #2: Concept Art for Games Design**

Date: Tuesday 2 February 2021

Time: 17.00 – 18.00

Presenter: Kaliegh Branham, BA (Hons) Games Art and Design lecturer, Norwich University of the Arts

### **Presentation content:**

What is concept art and how is it used in games development? How do concept artists come up with original ideas? BA (Hons) Games Art and Design lecturer at Norwich University of the Arts, Kaliegh Branham, will answer these questions, and show you how you can create original games designs using free software Webchemy. Follow along live to create your own character designs in this interactive workshop.

### **Presenter profile:**

Kaliegh is Lecturer for BA (Hons) Games Art and Design at Norwich University of the Arts. Kaliegh specialises in digital painting and concept art. Kaliegh is committed to helping students realise their ideas and give them the tools to communicate their concepts. Having completed her own degree at NUA, Kaliegh has since worked as a lead animator on several independent projects, and as an artist for Swallowtail Games, before returning to NUA to teach. Kaliegh's passion lies in digital art and expression

of thought through visual design. She enjoys the freedom designing via digital mediums offers – both in literal and abstract idea formation.

[Why study BA \(Hons\) Games Art and Design at Norwich University of the Arts](#)  
[Teaching and learning updates in this current situation](#)

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## Webinar #3: Introduction to Social Engineering/Phishing attacks

Date: Thursday 4 February 2021

Time: 17.00 – 18.00

Presenter: Dr Michał Król, Lecturer in Cyber Security, City, University of London

### **Presentation content:**

- This practical masterclass will cover techniques used by attackers to perform various phishing attacks. You will learn how attackers: gather information about potential targets, send emails from spoofed (fake) addresses and set up legitimate-looking websites for credential stealing.
- The masterclass will also cover multiple defence mechanisms allowing to verify legitimacy of visited websites, spot and block malicious phishing emails and limit the exposure of your private data online

Presenter profile:

[Dr Michał Król](#) is a lecturer at City, University of London where he teaches Information Security Fundamentals and Cryptography. He did his PhD in computer networks at the University Grenoble Alpes in France and spent several years as a research associate at University College London, University of California, Los Angeles and UCLouvain in Belgium. Michał does research on blockchains, distributed systems and privacy-preserving communication and is a big fan of hackathons and volleyball.

[Why study Cyber Security at City, University of London](#)  
[Teaching and learning updates in this current situation](#)

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