

# Dan Stoddart

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## EDUCATION

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**University College London**  
2019-2023 (*predicted*)

**Ph.D. Foundational AI & Computer Vision**

- Current research directions involve 3D Human Understanding and Multi-Task Learning
- Supervised by Dr. Iasonas Kokkinos

**University College London**  
2017-2018

**MSc Data Science & Machine Learning**

- Graduated with a Distinction - received 82% overall average, second highest mark in year.
- MSc Project with Dr. Iasonas Kokkinos - Investigating Architecture Search with Resource Constraints for Multi-Task Learning on Computer Vision tasks.  
Project received 89% - highest mark in class cohort.  
Project applied the Budgeted Super Network approach by Veniat et al, 2018 to multiple dense prediction tasks and a more complex search space. Project implemented in PyTorch.

**Imperial College London**  
2011-2015

**MSci Physics with a Year in Europe.**

2:1 Final Grade

- MSci Project: Using Generalized Linear Models to model simulated & biological neural spike firing data. Implemented in C++.

## EMPLOYMENT

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- Apr 19 – Current:** **Ariel AI. Computer Vision Scientist.** Role includes both engineering and research components.
- Developed interactive demonstration of core technology, based on Holopose (Guler et al, 2019) for demonstrations at CVPR and SIGGRAPH. Also deployed this demonstration as a service on website for public use.
  - Involved in research towards controllable human synthesis conditioned on pose and other factors.
  - Optimized data loading and model inference, speeding training and performance on edge devices.
  - Developed new methods for human & shape modelling.
- Oct 15 – Sep 17:** **Inspired Gaming Group. Junior Product Analyst – New Markets.**
- Focused on delivering new products into international markets such as China, Ukraine and the Philippines.
  - Implemented a recommendation engine, Bayesian A/B tests, and MCMC modelling methods.

## SKILLS, ACTIVITIES & INTERESTS

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**Languages:** English (*Native*), Spanish (*Fluent*), Mandarin (*Intermediate*)

**Technical Skills:** Python (*Advanced*), PyTorch (*Advanced*), Google Cloud (*Intermediate*), Docker (*Intermediate*), C++ (*Basic*)

**Interests:** **Toastmasters International.** International organisation dedicated to improving public speaking and leadership skills.  
(05.2017; 05.2018) National finalist on two occasions in annual contest.  
Outcompeted several professional speakers on both occasions to reach this stage.  
Served on committee in multiple roles including club president  
**Global Legal Hackathon:** Placed second in a competitive hackathon, developed method for automatic summarisation of legal cases.