# Mr. Connor Gabriel Daly

Personal Site | connor.daly95@gmail.com | UK Resident and National

## Education

**University College London** — London, UK

*Master of Engineering in Computer Science* — *Sept. 2015 – June 2019*

- 1st class honours: final year avg 82%, thesis grade 90% (top 5% of cohort), overall avg 76%
- MSc courses: Graphical Models; Intro to Deep Learning; Multi-Agent AI; Data-Mining, Affective Computing & Human-Robot Interaction; Virtual Environments
- Received Industry Award from the British Computer Society for Systems Engineering project

**University of Hong Kong** — Hong Kong

*Study Abroad Computer Science* — *Aug. 2017 – June 2018*

## Papers (Google Scholar link)

- Connor Daly, Yuzuko Nakamura, and Tobias Ritschel. "Deep Generative Modelling of Human Reach-and-Place Action." arXiv preprint arXiv:2010.02345 (2020).
- Daly, Connor. "Recognition and Synthesis of Object Transport Motion." arXiv preprint arXiv:2009.12967 (2019). (MEng Thesis)

## Professional Experience

**Quantitative Developer** — September 2022 – Present

*Gresham Investment Management - Research* — *London, UK*

- Working with the CTO to build and maintain the trading systems for a quantitative hedge-fund
- Rewrote and productionized the underlying trading algorithm to use graph computations with the Pyg library

**Quantitative Analyst** — March 2020 – May 2022

*Bank of America - Global Markets Risk Analytics* — *London, UK*

- Built monte-carlo simulations to model Interest Rate risk
- Researched different ways of decomposing Value at Risk calculations across portfolios based on factors such as computational complexity and explainability
- Designed data quality checks to determine quality of large financial datasets
- Developed and parallelised data pre-processing pipelines to drive risk models

**Consulting Analyst** — Sep. 2019 – March 2020

*Deloitte Ventures* — *London, UK*

- Helped develop a supply chain tool using genetic algorithms (DEAP framework) to optimize warehouse storage for non-perishable goods

**Research Intern - UROS** — June 2017 – July 2017

*Surgical Robot Vision Group* — *London, UK*

- Awarded a bursary to create an interface between Microsoft Hololens and ultrasound probe to aid with ultrasound imaging during laparoscopic surgery
- Built working prototype using C# , interfacing with C++ DLL libraries
- Took part in weekly research meetings, created report and wrote-up handover notes

## Entrepreneurship

**alienrent.com** — June 2020 – May 2022

*Platform to bring the circular economy to London DIY-ers and reduce electrical waste* — *London, UK*

- Conducted initial customer research. Built traction and on-boarded initial users via word of mouth and paid and unpaid marketing campaign, onboarded 100 users in 1st week of launch.
- Built out rental platform, integrated with Stripe payments, deployed using AWS and Github Actions for continuous deployment and automated test pipeline
- Supported by the UCL Hatchery incubator, took part in 6 week entrepreneurship bootcamp

## Technical Skills

**Languages**: Python, C++, C#, SQL, React, Haskell
**Frameworks**: Flask, Django, NextJS
**Libraries**: Pandas, NumPy, Matplotlib, Tensor-Flow, NLTK, scikit-learn, matplotlib, PySpark
**Other**: Git, AWS (Cloud Practitioner Certificate), Docker, Jenkins, Blender, Unity

## Additional

**Languages**: English (native), Mandarin Chinese (spoken and written proficiency, HSK 4 Equivalent), Cantonese (basic spoken)

**Volunteering**: Outpatient Volunteer at the National Hospital for Neurology and Neurosurgery, London.

**Other**: Photography - published in DK's Animal Atlas; Diving - BSAC Sports Diver (Member of BSAC Holborn); Improv level 1; Piano - grade 6, Painting at CSM