

# Gabriel Gordon-Hall

[ggordonhall@gmail.com](mailto:ggordonhall@gmail.com) | <https://github.com/ggordonhall>

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I am a Natural Language Processing (NLP) researcher with a deep interest in devising algorithms that enable computers to understand and respond to human language. I have particular experience working on Conversational AI (chatbots), using machine learning to do away with traditional rule-based systems, and have published research using reinforcement learning to automate chatbot decision-making. I am also interested in using representation learning to improve the efficiency of NLP; solving challenging problems in which data is hard to come by.

**Languages:** Python, Java, Scala, Kotlin, SQL, Julia, JS/HTML/CSS

**Machine Learning Frameworks:** PyTorch, Numpy, SpaCy, Pyro, TensorFlow

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## Experience

**Research Engineer, Natural Language Processing, Huawei Noah's Ark Lab (Jan 2019 - )**

Research and development of Conversational AI, particularly Dialogue Management

Focus on reinforcement learning and representation learning for NLP

Author and edit academic research papers

Set and mark coding tests for applicants

Co-supervisor UCL MSc student projects

***The Economist*, Contributor and Editorial Assistant (April – October 2017, June – September 2016)**

Articles published in *The Economist* (Business and Books, Arts and Culture sections)

Encompassed finding stories, pitching, interviewing, and writing up – all to a tight deadline

Researched and fact-checked articles

Helped manage *The Economist's* huge social media presence, writing copy for Twitter and Facebook posts

***Intelligence Squared* – Intern (June – September 2015)**

Heavily involved in the production of the company's 2015 Autumn Season of debates

Research, finding the best speakers, booking venues, writing promotional text, and liaising with clients

**Freelance Researcher (May – July 2014)**

Historical research for an academic. Extensive independent research in libraries, archives and online.

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## Research

*Learning Dialog Policies from Weak Demonstrations* – **Gabriel Gordon-Hall**, Philip John Gorinski, Shay B. Cohen, *accepted to ACL 2020 (Long Paper)*

*Show Us the Way: Learning to Manage Dialog from Demonstrations* – **Gabriel Gordon-Hall**, Philip John Gorinski, Gerasimos Lampouras, Ignacio Iacobacci, *in The Eighth Dialog System Technology Challenge at AAAI 2020*

**Conference Reviewing:** EMNLP, INLG

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## Education

**MSc Computer Science, Birkbeck College, University of London (2017 – 2018)**

Distinction in all modules, including:

*Database Management, Data Structures, Computer Architectures,  
Information Retrieval & Language Modelling, Software Design*

Supervisor: Dr. Dell Zhang  
Project Title: Neural Models for Question Generation

**B.A. History, University of Edinburgh (2013 - 2017)**  
1<sup>st</sup> Class Degree

**City of London School for Boys**  
Academic Scholarship  
**A-Levels:** Maths A\*, English A\*, History A, **AS:** Chemistry A

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## Languages

English (native), French (basic), Chinese (beginner)