

# Gabriel Gordon-Hall

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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.

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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

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

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

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## Research

*Learning Dialog Policies from Weak Demonstrations* – Gabriel Gordon-Hall, Philip John Gorinski, Shay B. Cohen, *submission to ACL 2020*

*Show Us the Way: Learning to Manage Dialog from Demonstrations* – Gabriel Gordon-Hall, Philip John Gorinski, Gerasimos Lampouras, Ignacio Iacobacci, *to appear 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)