

GAUTIER DAGAN

Artificial Intelligence Master Student

✉ gautier.dagan@gmail.com 🔗 gautier.tech 🐙 github.com/gautierdag
in linkedin.com/in/gautier-dagan 🐦 __gautier__



EDUCATION

M.Sc. in Artificial Intelligence

University of Amsterdam

📅 September 2017 – Anticipated August 2019

- GPA: 8.4/10
- Relevant Coursework:
 - Machine Learning I, II
 - Natural Language Processing, Computer Vision
 - Deep Learning, Deep Learning for Natural Language Technology

B.A. in Computer Science, Economics, and International Studies (Triple Major)

Northwestern University

📅 September 2013 – June 2017

- GPA: 3.6/4.0
- Honour Roll (Dean's List): W 2016, S 2016, F 2016, S 2017
- Recipient of the International Student Scholarship and the UWC Davis Scholars Scholarship

EXPERIENCE

Graduate Student Researcher

Institute of Logic, Language and Computation

📅 January 2019 – Present

Member of the **i-machine-think** research group at the **ILLC**

- Submitted papers to EMNLP 2019 and CoNLL 2019 (currently under review)

Teaching Assistant

University of Amsterdam

📅 February 2019 – April 2019

Teaching Assistant in Information Retrieval course for the M.Sc. in Information Studies (Data Science track)

- Covered topics such as distributed crawling, Term/Semantic Search and Learning to Rank
- Supervised six groups of students to create a search engine from scratch

Co-founder

Zcruit

📅 February 2016 – January 2018

Co-founded **Zcruit** – a predictive analytics and data-aggregation start-up in focusing on college football recruiting

- Conceptualised and brought to market a Minimum Viable Product, now sold nationwide to 35+ enterprise clients
- Developed an AWS based scalable and serverless backend architecture with Lambda, DynamoDB, SQS
- Designed an asynchronous scraper able to refresh >50,000 individual data-points daily and minimized cloud infrastructure costs

Lead Student Developer

Northwestern Media Design

📅 October 2015 – November 2016

Lead Student Developer for the Northwestern Media Design (formerly known as NUX)

- Developed and supervised the release of mobile applications using Ionic and Cordova frameworks

PROJECTS

M.Sc. Research Thesis

Ongoing research on language evolution, bridging traditional Linguistic theories and Deep Learning

- Simulated language evolution through Referential Games and Neural Architecture Search algorithms
- Analysed emerged languages in a multi-agent and multi-modal setting
- Submitted an EMNLP conference paper (currently under review)

ECCV 2018 Workshop Paper: Adding Object Detection Skills to Visual Dialogue Agents

Published research paper at the 2018 EECV Workshop on Shortcomings in Vision and Language

- Adapted a Mask R-CNN in a Visual Dialog agent to improve performance on the GuessWhat?! task
- Replaced ground truth images using predictions allowing, for the first time, inference on unlabelled images

Positional Attentive Language Modelling

Independent research project through the ILLC

- Experimented with new attention mechanisms and test on Language Modelling baselines
- Implemented state-of-the-art Sequence-to-Sequence models and outperformed baseline metrics using proposed technique

Global and Local Critical Policy Learning for Abstractive Summarization

Research project for the 2018 Information Retrieval II course

- Replicated and surpassed state-of-the-art abstract summarisation methods by optimising ROUGE score directly instead of through standard Maximum-Likelihood-Estimation

SKILLS

Programming:

Python

Pytorch

JavaScript

NodeJS

C++

Other Technologies:

Git

AWS

Latex

Adobe Suite

Microsoft Office

Languages:

English (native), French (native), Spanish (A2)

Competitions:

Autonomous Robot Design Competition (2016 and 2017), RoboCup IranOpen 2018, Kaggle Elo Merchant Category Recommendation 2019 (**top 10%**)