

# LORENZO GARDUNO

Data Science MSc, Robotics & AI BSc

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## EXPERIENCE

### Qa Consultant

Quira

2023 - 2025 London, United Kingdom

- Extensive experience in QA doing Qualitative analysis of a new product in the launch cycle, by methodically testing the ease of use and interpretability and showcasing the results in a written report.
- Experience in product QA doing qualitative analysis of a new product in the launch cycle by methodically testing the ease of use, interpretability, and showcasing the results in written reports.
- Worked within the QA team following a testing pipeline for the launch of an automated user and quest management bot to simulate how the user population will use said bot.
- Became proficient at Slack to improve communication within the QA team and with management by creating Slack bots to give status reports on the company repository.
- Gained rigorous experience with GitHub, repository management, and version control to improve user experience while tailoring it for product updates.
- Utilized different technologies to tailor user experience for product launches by writing simple project examples for software like Docker, MindsDB, CyclopsUI, Charm.land, Railwaysh, among others.
- Experience working in a QA team following a testing pipeline for the launch of an automated user and quest management bot as to attempt to simulate how the user population will use said bot.
- Became Proficient at Slack to improve communication within the QA team and with my bosses by creating Slack bots to give us status reports on the company repo
- Gained rigorous experience with GitHub, Repo management and version control to improve the user experience while tailoring user experience for product updates.
- Utilised a plethora of different technologies to tailor user experience for the product launches by writing simple project examples for software like Docker, MindsDB, CyclopsUI, Charm.land, Railwaysh amongst others.

### Student Ambassador

University of Hull

2022 - 2025 Kingston upon Hull, United Kingdom

- Management of social media as well as creation of relevant social media content as to show the student life in university
- Helped do research into international schools that showed promise for exchange plans by contacting different universities outside the UK and in the Latin America area.
- Communication with prospective students to develop relationships with the university to improve fresher rates.

## SUMMARY

Research-focused Robotics & AI student with hands-on experience in machine learning, computer vision, NLP and autonomous systems. Professionally I have worked at Quira previously, a startup that focused on helping open source companies monetize their products, as well as helping those companies and repos set up bounties so they use their products.

I gained extensive experience in QA during my internship, starting with a qualitative QA report on Quira's new product, "issue bounties." Here, users were expected to choose different relevant Github issues and solve them for a monetary reward and reputation.

The process involved evaluating ease of use, interpretability, and other qualitative matters to better tailor the product to their target audience. I later joined the company as part of the QA team and then as a QA consultant. Here, I helped with the launch cycle of a bot that was designed to automate the user experience with the Quira Github repo. I learned how to create QA pipelines and gained a much deeper understanding of automating processes and tooling.

I am now undertaking my master's in data science at the University of Sheffield, where I am taking a great interest in data analysis, particularly in the field of computer vision and computer audition. I plan on focusing my dissertation on the analysis of visual MRI data along with segmentation within said data. with the end goal of adding to the field of medical diffusion segmentation.

## KEY ACHIEVEMENTS



### BSc dissertation

Generated synthetic dataset to compare a detection models performance compared to non synthetic model by generating 10000 images with annotations.



### BSc assignment

Developed CNN model achieving 92% accuracy in classifying 1000 diverse image classes.



### QA experience

Worked in multiple QA cycles to improve existing products as well as launch new products ranging from automated bots, data and QA pipelines and data management and scraping

EDUCATION

Data Science MSc

- Sheffield 09/2025 - 09/2026 Sheffield, United Kingdom
- Utilised tooling skills to develop visual dashboards to present data insights using R and Python
  - Used statistical analysis tools to find insights in the NLSAA dataset by understanding the relationship between dependent and independent variables using SPSS
  - Implemented skills to create data cleaning and wrangling pipelines using R and Python to clean MusicOSet datasets in order to use them in downstream tasks
  - Developed an good understanding of some graph theory as to better aid in my visualizations by tailoring aspects like type of graph, colour data backing the graph amongst other aspects.
  - Currently enrolled to take modules on big data and BI in semester two.

Robotics & artificial intelligence BSc

- University of Hull Kingston upon Hull, United Kingdom 2022 - 2025
- Used ROS to create a simulated self-driving car using lidar to navigate a maze to a desired destination to test the performance of different Pathfinding algorithms by running multiple simulations and comparing the results in a quantitative manner
  - Created a synthetic tweet dataset to understand how attention in transformer models differ between real and synthetic data for sentiment analysis
  - Programmed an embedded microcontroller to optimise energy consumption of a heating element, using assembly language to simulate a climate-control system
  - Created a novel GAN architecture to generate synthetic image dataset to simulate camera inputs to compare the performance of a driving clasification model trained on the Waymo open dataset
  - Created a CNN model to classify 1000 classes in the MNIST extended dataset to develop a deep understanding of how CNNs Work by visualising the different features.

Foundation degree in maths and physics

- Kings College London 2021 - 2022 London, United Kingdom
- Gained an understanding of mathematical modelling and problem-solving
  - Developed statistical analysis and interpretation skills
  - Developed effective communication skills through presentations, reports, and group projects
  - Gained proficiency in using computers for data analysis, modelling, and simulation
  - Developed independent study skills and self-discipline required for university-level study

KEY ACHIEVEMENTS

MSc data analysis

created data visualization dashboards using R and shiny to present findings gathered from a data processing pipeline on the Build board's music dataset and the MusicOSet dataset.

LANGUAGES

English

Spanish

Proficient

Native

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SKILLS

C/C++

Python

Pipeline creation

Numpy

Synthetic data

ML

Robotics

R

Computer vision

Kinematics

QA

Shiny

NLP

Pandas

FIND ME ONLINE

Linkedin

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INTERESTS

Rock Climbing

Data analysis

Computer vision

Synthetic Data

Diffusion models