

CONTACTS

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- ▷ [GitHub](#)
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STUDIES
AND
WORKS**Data Scientist - [General System](#) - 2020-Present**

Geospatial data Science Services: Startup in stealth mode until April 2022

- ▷ Developing high standard prototypes, and maintaining their cloud deployment.
- ▷ Collaborating with clients and domain experts to quickly and iteratively integrate feedback into prototypes.
- ▷ Managing prototypes handover to production and DevSecOps teams.
- ▷ Presentation of experimental and algorithmic research to stakeholders.
- ▷ Contributing to the company blog to build a community around the topics of geospatial data science.

Algorithm Engineer - [Pace Revenue Management](#) - 2019-2020

Dynamic pricing for the hospitality industry

- ▷ Simulation and Validation team, aimed at validate and test the python-based ETL pipeline and the core algorithms.
- ▷ Production code maintenance and new features integration.

Back End Developer - [Thought Machine](#) - 2018-2019

Cloud native core banking

- ▷ State-of-the-art infrastructure technologies to deploy microservices in a cloud-agnostic environment: Python, Go, Docker, Kubernetes, and derived customisations.
- ▷ Maintenance and improvement of the Thought Machine's CI/CD and release pipelines.

MRes + PhD in Medical Image analysis - [UCL CDT](#) - 2015-2019

Research Student

- ▷ Pre-clinical trial on pre-term birth steroids administration in a multi-disciplinary international research team.
- ▷ Published 7 peer reviewed papers on the topic of diffeomorphic image registration and ML for automated MRI segmentation.
- ▷ Recipient of best young scientist poster award at the first Workshop on Assistive Technology for Fetal Therapy and Surgery.

- ▷ Reproducible research advocate: open sourced 12 Python libraries, and one micro MRI dataset.

Industrial Simulation Modeller - [SimTec](#) - 2013-2014

Automotive industry, process and flow simulation

- ▷ Material flow simulation models to estimate efficiency, remove bottlenecks, dimension buffers and support plant layout design for a range of clients in Italy and Germany.
- ▷ In house algorithms development for the internal and external logistics of assembly parts, from plant's gate to assembly line.
- ▷ Presented at the first annual Tecnomatix Plant Simulation User Conference in Stuttgart.

Algorithms developer - [TcWeb](#) - 2011

Web development and technology consulting

- ▷ Term contracts as Junior Developer in Java, Java J2EE, Struts 2, Uml, Android app development.
- ▷ Algorithms developer: prototyped and implemented a generalised Hungarian Algorithm to parse newspapers' pages.

Bachelor + Master degree in Mathematics - [UNITO](#) - 2006-2014

Universita' degli Studi di Torino

- ▷ Graduated in mathematics with specialisation in Computational Algebra and Geometry.
- ▷ Master of Science in Mathematics with specialisation in Geometry and a thesis about a new application of the Winograd Transform.

VOLUNTEERING

Maths tutoring programme - [Action Tutoring](#) - 2017-2018 and 2019-2020
At the City of London Academy Highgate Hill College.

SKILLS

Research, data science, algorithms development and prototypes productionisation, pragmatic and goal oriented, mutlidisciplinary collaborations.

Prototypes: Python, Streamlit (Jupyter, Numpy, scipy, Scikit-Learn, Matplotlib, Pandas, geopandas). Also: Matlab, Maple, PariGP.

Production: FastAPI, OOProgramming, PostgreSQL. Also: C++, Java, Rust, Go, Kubernetes, Helm.

Methods: AGILE, jira, phabricator, git, github, gitlab, Docker. CI/CD automation, unit testing, integration testing, test driven development. Code reproducibility, static documentation, dev-prod parity.