

# Coline Ritz | Data scientist

ritzcoline@gmail.com | +33 749495276 | [Linkedin](#) | [Github](#)

## Education

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### **MEng in Design Engineering *First-Class Honours* | 2018-2022** [Learn more](#)

*Imperial College London*

Key Modules: Computing (Machine Learning (ML), Optimisation, IoT), Engineering (Robotics, Mechanics, Materials) and Design (Design Thinking, Human-centred design, Product design, Sustainable design)

- Master's Project: Real-time Internet Carbon Footprint Analyser (Python, ML, Raspberry Pi, GCP, Web App)
- Research Project: Students' household energy consumption prediction algorithms (Python, Remote Sensing, MongoDB, API)

### **Machine learning Research Residency | April - Present** [Learn more](#)

*The Machine learning Institute, Uk funded scholarship*

- Intensive programme learning the full machine learning lifecycle, including cutting-edge AI architectures (Transformers, LLMs, Stable Diffusion), scalable MLOps and evaluation.

## Employment history

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### **Data Analysis and Science Teacher, Aug 2024 - Present**

*Databird - Freelance*

- Teach data science and analysis tools (Python, SQL, Data Visualization) to over 100 career-transitioning professionals, ensuring their successful integration into industry roles

### **Co-founder, Aug 2023 - Nov 2024** [Learn more](#)

*Ecocircular, Climate NGO - Self-employed*

- Established a climate collective, inspiring action across North and South America for 9 months
- Facilitated environmental and climate workshops with 45+ leaders (students, IPCC researchers, NGO, agricultural centers etc.), sharing interviews on social media and at events (e.g. Paris Climate Academy) and sailed back the Atlantic !

### **Green IT and AI consultant, Sep 2022 - Aug 2023**

*IJO, Paris - Full time*

- Led carbon accounting for tech companies and trainings on sustainable IT and generative AI
- Developed new carbon methodologies and optimisation algorithms, improving accuracy and compliance with certified methodologies (GHG Protocol, SBTs, ISO, CDP) and automated data collection (data scraping, API)

### **R&D Intern, Mar 2021 - Sep 2021**

*DSS+, London - Internship*

- Helped launch the start-up [Black Bull Biochar](#), the UK's first Biochar network, connecting sawmills, farmers, and investors with a centralized marketplace to promote sustainable carbon removal solutions
- Led biochar carbon sequestration research with Edinburgh University and Scottish farmers.

### **Research Intern, Aug 2019 - Oct 2019**

*EDF (Dreev), London - Internship*

- Conducted environmental impact data analysis of Vehicle to Grid (V2G) technology and bidirectional charging systems

## Teamwork and Leadership

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### **President, TEDx Imperial 2021**

- Managed day-to-day operations and led a team of 56 to organize TEDx Imperial's first virtual event, attracting 1,000 attendees

### **Venture Catalyst Challenge, Imperial Enterprise Lab 2022**

- Selected from 185 applicants for a 7-week entrepreneurship program with masterclasses, coaching, and expert meetings

### **Volunteering, Utopia 56**

- Citizen mobilization alongside exiled people (volunteers roam, French classes, etc.).

### **Data Scientist, GreenPeace with Data for good season 2025**

- Help map school rooftop solar potential in France to support energy transition (Geopandas)

## Key skills and interests

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**Awards:** *UK Innovate* - Direct Air Capture and Greenhouse Gas Removal Innovation, *Venture Catalyst Challenge* - Imperial Entrepreneur Lab, *DESIRE award* - Imperial College most prestigious innovation award,

**Languages:** French (native), English (bilingual), Spanish (Advanced)

**Programming Languages:** Object-oriented Python (Tensorflow, PyTorch, Scikit-learn, pandas), MATLAB, SQL

**Software:** MS Office, Adobe (Id, Ai, Ps, Xd), Github/Git, Docker, Google Cloud

**Interests:** Football (Third Division, Paris Regional League; First Team, Imperial College Football), Violin, Mountain trek, Nature