

Nicholas (Nick) Price

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EDUCATION

Imperial College London / Massachusetts Institute of Technology **Oct 2019 - Jun 2023**

- MSci Chemistry with Research Abroad (**1st class honours: 82% @ Imperial, 5.0 GPA @ MIT**)
- Awarded Dean's List distinction (top 10%) in all four years and received physical chemistry prize
- Completed my master's project in the Brushett Lab at MIT, receiving the **prize for best MSci project in physical chemistry**. My work focused on creating computationally-lightweight redox flow battery (RFB) models. The thesis presents a zero-dimensional RFB model that is generalised for any redox chemistry/conditions and able to simulate days of cycling at the **stack-scale** in seconds - link to full paper [here](#)

High Storrs School, Sheffield

Sep 2012 – Jun 2019

- A-Level: Mathematics (A*), Further Mathematics (A*), Chemistry (A), Physics (A)
- ACT: 34, SAT Subject Test: Math Level 2 – 800, Chemistry – 800
- GCSE: three level 9s (maximum possible grade), four A*s and four As (including Maths, Science, English and French)

WORK EXPERIENCE

Trading Labs, London - AI Infrastructure Engineer (Contract) **Feb 2026 – Apr 2026**

- Designed and shipped a dual-server AI architecture (MCP + LLM) for a portfolio management team, going from architecture to production in under two months
- Solved three concrete problems in production AI: dynamic agent routing across live market data sources, automated citation tracking against ground-truth data, and real-time risk attribution visualisation
- Built the orchestration layer that made agentic outputs auditable and grounded - replacing manual analyst workflows across multiple data environments

Electra Vehicles, Inc. – Battery Modelling Developer

Oct 2023 – Jan 2026

- Early technical hire at an AI-native energy storage startup; worked across physics modelling, ML-informed predictive SOX algorithms, and pack-level analytics
- Built production digital twins of battery cells and packs and spearheaded software for extracting capacity- and resistance-informed degradation estimates from real, noisy field BMS data using a dual UKF architecture
- Developed physics-informed simulation models (P2D + parameter optimisation), data-driven SOX models from VIT data, and ML time-series forecasting models (FNN, LSTM)
- Developed an adaptive coulomb-counting approach for SOH estimation from noisy pack data
- Additional exposure to technical sales, hiring, and customer-facing work

RFC Power – Summer Intern

Jul 2022 – Aug 2022

- Built an interactive Python/Dash dashboard for lab cycling data visualisation, used across multiple ongoing experiments

Faraday Institution – FUSE Summer Intern

Jul 2021 – Sep 2021

- Research placement to better understand the chemical reactions that lead to thermal runaway (TR)
- Used MATLAB to probe TR decomposition networks using data from existing ethylene carbonate electrolyte systems
- Latin Hypercube Sampling used to generate sets of frequency factors (FFs) associated with each sub-reaction. Simulated reaction network thousands of times (generating concentration profiles)
- Trained surrogate model using Gaussian Processes (GPs) on ROMCOMMA package on Python to extract FFs from literature concentration profiles. Robust parameter optimisation performed using continuous rank probability score
- Worked towards publishing research paper: “Gaussian-Process based inference of electrolyte decomposition reaction networks in Li-ion battery failure” (link [here](#))

PV Evolution Labs – Consulting Business Development Intern

Aug 2021 – Oct 2021

- Compiled and analysed PV module test data; produced graphics tracking industry trends and published on the PVEL blog (see [here](#) for more)

GCSE/A-Level tutor – Self-employed

Dec 2016 – Jul 2021

- Tutoring mathematics, physics and chemistry to students from a variety of backgrounds/abilities

LP Record Store – Sales assistant / DJ

Nov 2016 – Aug 2018

EXTRA-CURRICULAR

- Voted as 5-a-side captain for Imperial College School of Medicine Football Club (ICSM FC)
- Voted as second year Academic Representative for chemistry during the 2020-2021 academic year at Imperial
- Co-founded the High Storrs Debating Club and voted as a school prefect during my final two years

OTHER SKILLS

Software: Microsoft Office Suite, Python, MATLAB, LaTeX, PyBaMM

Languages: English (native), Bulgarian (intermediate), French (intermediate)

Interests: DJing, Football, bouldering, jazz and electronic music, cooking

Societies: ICSM FC, Chemistry, Mountaineering, DJ, Radio

References available upon request