# Samuel X.J. Zhang

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## EDUCATION

**Imperial College London**                                                                                           **London, UK**
*MSc Artificial Intelligence Applications and Innovation*                                              Sep 2025 – Sep 2026

- **Entrepreneurship-focused curriculum:** AI venture development, business case creation, and market validation across healthcare, finance, and technology sectors with dedicated focus on innovation management and startup investment
- **AI Ventures & Ethics:** Leading cross-functional teams in developing AI software products with comprehensive business cases, go-to-market strategies, and Dragon's Den presentations to evaluate commercial viability and scalability
- **Industry collaboration:** Partnership opportunities with Imperial Business School and external organizations for real-world AI product development, focusing on market opportunity assessment and business model innovation

**King's College London**                                                                                              **London, UK**
*BSc in Chemistry with Biomedicine with Placement*                                                      Sept 2021 – May 2025

- **Results:** 1$^{st}$ Class Honours (with Royal Society of Chemistry Accreditation)
- **Final Project:** Designed innovative drug discovery solutions using computational modeling (SwissDock and AlphaFold 3), developed computational workflows for drug-protein interaction analysis with QSARs.

## PROFESSIONAL EXPERIENCE

**Pfizer**                                                                                                                     **Sandwich, UK**
*Product Owner & Technical Lead | Digital Solutions, Analytical R&D*                            Sept 2023 – Present

- **Led end-to-end product development** of GROWMAT enterprise resource management and forecasting platform: conducted user research, defined requirements, and managed cross-functional Agile team, achieving department-wide adoption
- **Delivered measurable business impact:** 1200% efficiency improvement and 120+ person-hours saved monthly through iterative development and user feedback integration. Commended by director for solving mission-critical operational challenges
- **Created comprehensive technical documentation** including user manuals, PDFs, and video tutorials, ensuring seamless adoption and long-term support through multiple business restructuring events across teams
- **Built data-driven analytics dashboard** with 99.9% uptime and 80% performance improvement using real-time KPIs and continuous optimisation

**Singapore Civil Defence Force (SCDF)**                                                                              **Singapore**
*Personal Assistant to Commander | Human Resource NSF*                                             Jul 2019 – Jul 2021

- **Led digital transformation initiative** for 1,000+ frontline responders, conducting user research and stakeholder interviews to identify pain points and define product requirements for emergency response optimisation
- **Developed predictive analytics solution** using MATLAB for COVID-19 resource planning, demonstrating ability to translate civil service needs into technical specifications and data-driven decision making
- **Delivered measurable impact** achieving 300% improvement in emergency response time through process automation and workflow optimisation
- **Recognized for service excellence** receiving Service Excellence Award and promotion to Sergeant for exceptional performance in operational efficiency and user satisfaction

## OTHER EXPERIENCE

**Department of Chemistry, King's College London**                                                         **London, UK**
*Lecturer & Curriculum Designer*                                                                                    Jan 2023 – Apr 2025

- **Launched department wide programming initiative**, designing curriculum covering Python, data analysis, Excel automation, and scientific computing for non technical audiences.
- **Trained 80+ students across 20+ sessions** with 90% positive feedback, securing Royal Society endorsement and departmental sponsorship through demonstrated impact and program importance.

**Royal Society of Chemistry, King's College London**                                                     **London, UK**
*Research Internships*                                                                  May 2023 – Jul 2023 | Jun 2022 – Jul 2022

- **Built GPU-accelerated HPC infrastructure** for molecular dynamics simulations using GROMACS, reducing computation time by 70% through self-hosted optimisation for the purpose of membrane protein dynamics research.
- **Developed automated data analysis** pipelines in MATLAB and Excel, improving research workflow efficiency by 40% for the purpose of chemical spectroscopic data processing and analysis. Publication in progress.

## SKILLS & PRODUCT MANAGEMENT EXPERTISE

- **Product Strategy:** Roadmap development, competitive analysis, user research, MVP definition, go-to-market strategy
- **Product Delivery:** Agile methodologies, sprint, backlog management, cross-functional leadership, stakeholder management
- **Analytics & Technical:** Product analytics, KPI definition, A/B testing, SQL, Python, LLM, Machine Learning, Julia, Docker, PowerBI, MS Office Suite, React, AWS, docker, Linux, system design, full-stack development
- **Languages:** English, Chinese (Mandarin) **Awards:** KCL Research Experience Award, SCDF Service Excellence Award