

Kelly Blanca Irahola Vallejos

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EDUCATION

Master of Science in Computer Science with Honors (Integrated) | University of Exeter, United Kingdom *(June 2025)*

RELEVANT EXPERIENCE

Lead Teachers Assistant | Girls Who Code | Remote, USA *(June 2025 – August 2025)*

- Rehired to teach classes now consisting of **70+** students, with similar responsibilities (see below)
- Debugged and reviewed over **180** assignments/projects
- Coordinated with our partners Discover Financial Services and Insight Enterprises for 10+ partner events

Events Assistant | Exeter Students' Guild | Exeter, United Kingdom *(September 2024 – June 2025)*

- Assisted in facilitating over **20** events to enhance student community engagement
- Supported event logistics and attendee engagement, with approx. 500,000 students attending to all events

Lead Teachers Assistant | Girls Who Code | Remote, USA *(May 2024 – July 2024)*

- Taught 40+ students in live JavaScript and game design sessions, responsible for breakout room management
- Debugged and reviewed over **150** projects/assignments both synchronously/asynchronously, communicating the source of the bugs to students to ensure they understand
- Coordinated with our partners Bank of America and Synchrony to facilitate STEM outreach programs

Workshop Leader | Excode Exeter Entrepreneurs | Exeter, United Kingdom *(Oct. 2022 – December 2022)*

- Led an 8-week Python boot camp; tailored teaching to support a diverse skill set, ending with a high pass rate
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RELEVANT PROJECTS

Robotics Project for University of Exeter's Computer Science Outreach Programs *(Oct 2024–May 2025)*

- Co-Developed both a responsive front end to program robots' actions using Google's Blockly, and a backend to establish a connection between the front end and the e-puck robots to execute said code.
- Wrote a formal evaluation report and delivered an oral presentation, demonstrating strong technical writing and communication, test running final project to approx. **50** recruiters.

Predicting Consumer Demographics from Shopping Data *(November–December 2023)*

- Built a Random Forest ML model achieving 75% accuracy in predicting gender from consumer behavior.
- Applied PCA for dimensionality reduction and SMOTE for class balancing to address bias and interpretability.
- Evaluated performance with precision, recall, F1-score, and confusion matrix, and structured findings for non-technical readers.

Interactive Django Web App – Sustainable Campus *(November 2022–March 2023)*

- Co-developed a full-stack web app (Python/Django/JavaScript) using QR location verification, virtual economy, and gamified user behavior.
 - Built robust user authentication, item store, and friend-tracking functionality, and used Git for version control and SQL for backend data management.
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SKILLS AND INTERESTS

- Languages & Frameworks: Python, C++, JavaScript, Django, Java, SQL, scikit-learn, TensorFlow, PyTorch, HuggingFace, NLTK, SQL, React.js, Node JS
- Tools & Platforms: Github, Jupyter, SMOTE, PCA, BERT, Linux, MacOS, UNIX, VS Code, Eclipse
- Concepts: Machine Learning, NLP, Data Preprocessing, Model Evaluation, Optimization, Ensemble Methods, Dimensionality Reduction, AI Prompt engineering, Virtual Machines, Scripting, Report Writing, LaTeX, APIs

Soft skills: Teamwork, Collaboration, Communication, Adaptability, Resilience, Presentations

Languages: English (Fluent), Spanish (Fluent), Chinese/Mandarin (Limited)

Hobbies: Running, crocheting, video games, Rubix cubing, gardening, football (soccer), and puzzles