

# Nathan Monette

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## EDUCATION

### University of Oxford

*M.Sc. in Advanced Computer Science (Incoming)*

**Oxford, UK**

*October 2025 - September 2026*

### University of California, Irvine

*B.Sc. (Hons) in Computer Science*

**Irvine, CA**

*September 2021 - June 2025*

- GPA: 3.7 (undergraduate), 4.0 (graduate).
  - Selected coursework (undergraduate): Linear Algebra I, II, and III, Project in Reinforcement Learning.
  - Selected coursework (graduate): Algorithmic Game Theory, Probabilistic Learning, Learning in Graphical Models, Deep Learning, Scientific Computing
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## RESEARCH/PROJECT EXPERIENCE

### Nokia Bell Labs / University of Oxford

*Research Intern with Alvaro Valvarce / Prof. Jakob Foerster*

**Oxford, UK**

*July 2025 - Present*

- Constructed a dataset to post-train LLMs for the emulation of 5G network messages.
- Post-trained LLMs using SFT alongside a custom tokenizer in order to improve emulation performance.
- Began setting up multi-agent reinforcement learning experiments to learn emergent network protocols.

### University of Oxford

*Research Intern with Prof. Jakob Foerster*

**Oxford, UK**

*June 2024 - March 2025*

- Independently proposed a project to Prof. Foerster, leading to a fully-funded internship.
- Led writing, experimental design, and method design for a [paper](#) on utilising min-max optimisation to derive theoretical guarantees for unsupervised environment design, published at Reinforcement Learning Conference 2025.

### University of California, Irvine

*Undergraduate Researcher with Prof. Ioannis Panageas*

**Irvine, CA**

*April 2023 - June 2025*

- Managed experiments for a project on RL in adversarial team Markov games in PyTorch.
- Re-implemented models and training code in JAX to improve experiment runtime.
- Learned techniques relating to min-max, nonconvex, and convex optimization.
- Mentored younger students interested in research.

### University of California, Irvine

*Undergraduate Researcher with Prof. Roy Fox*

**Irvine, CA**

*October 2024 - June 2025*

- Continuing development of RL environments for control tasks with multi-agent aspects.
- Ongoing experiments aiming to leverage offline data to accelerate large-scale multi-agent reinforcement learning tasks.

### UK Government AI Incubator Hackathon

*Perf-nect*

**London, UK**

*November 2024*

- Awarded finalist in government sponsored AI hackathon related to energy sustainability and governance.
  - Cooperated with a team of 4 UK government researchers on creating an app to handle applications for resources to join the national power grid.
  - Implemented a Bradley-Terry preference model to create a human-in-the-loop system to accelerate processing of a large backlog of applications.
  - Invited to present our work at *10 Downing Street* to UK Prime Minister Keir Starmer.
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## APPOINTMENTS

### UC Irvine Computer Science Department Curriculum Committee

*Student Representative*

**Irvine, CA**

*Sept 2023 - June 2025*

- Served as the sole representative of over 2,000 undergraduate students to a faculty committee in charge of curriculum design.
  - Authored the first draft of the department's new undergraduate degree requirements.
  - Presented community feedback in course evaluation and design from around 100 students and alumni.
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## SKILLS & INTERESTS

**Proficient:** Python, JAX, NumPy, LaTeX

**Competent:** C++, TensorFlow, PyTorch, SciKit-Learn

**Interests:** I am interested in game theory and reinforcement learning as well as pedagogy, specifically regarding the design of curriculum and how to properly create the requisite background for students who want to learn ML.