

# Kat Matheson (they/elle)

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## Education

- (2017) BMath: Mathematical Finance** **University of Waterloo**
- Minor in Pure Mathematics.
- (2019) MMath: Statistics** **University of Waterloo**
- Thesis: On multiple random locations of stationary stochastic processes.
- (2019–2021) PhD: Applied Mathematics (incomplete)** **University of Waterloo**
- Research topic: detecting, modeling and predicting self-similar patterns in data.
- (Jan 2024–Present) BCs: Computer Science (Games Option)** **Concordia University**
- Graduating August 2026 + internship time.
  - Integrated Path option, which grants ability to take graduate courses.
  - Coursework in C++, C#, Java, Python, Game Development, Graphics etc.

## Skills

- Languages: C#, C++, Rust, Java, Python, R, Bash, SQL.
- Frameworks/Software: Unity, Git, Linux, Perforce & Swarm, Sharpmake, CMake, Jira, Confluence, WPF, Tableau, VS (Code), Vim.
- Bilingual in French & English.
- Excellent & rigorous attention to detail. Extremely fast & curious learner.

## Employment

- Beenox, Tools Programming Intern** **Jan 2025–Aug 2025**
- Primarily worked on C# WPF version control tool that had just been made mandatory across the entire Call of Duty core/engine pipeline: adding new features, refactoring/optimizing, fixing regressions.
  - Added: mandatory fields validation per .yaml configs & UX QoLs, syncing to Helix Swarm via web API, test builds tracking toolbar, tool usage telemetry design & backend (used on other tools too) etc.
- Ubisoft, Game Intelligence Analyst** **Jan 2021–Mar 2023**
- Game analytics: activity, retention & monetization; user test analysis; survey design & analysis.
  - ETL building, maintenance, restructuring, automation and quality assurance.
  - Custom pipelines for rigorous statistical analyses in R.
  - Collaborations done in Agile environment using Jira.
  - Principal analyst on Rainbow Six: Extraction until launch, then on Rainbow Six: Siege.
- University of Waterloo, Sessional Lecturer** **Sept 2020–Dec 2020**
- Teaching Calculus I for Honours Mathematics (Math 137): lecturing, developing lecture materials, creating and reviewing assignment/quizzes/exams, helping students outside of class.
- University of Waterloo, Teaching Assistant** **Sept 2017–Aug 2020**
- Delivering weekly tutorials (e.g on R coding, practical examples), marking assignments and exams, proctoring, holding office hours for undergraduate math & statistics courses.
  - Head Teaching Assistant for 5 courses throughout 2017–2020: responsible for organizing and delegating tasks to the other teaching assistants in addition to above duties.
- Self-Employed Tutor** **2008–Present**
- Private mathematics tutor for elementary, highschool, college/cegep and university students. Over 30 students taught, ranging from 4 months to upwards of 3 years each.