ELLA BOURASSA

Cognitive Science (Computational Emphasis)
Davis, CA
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EDUCATION

University of California, Davis
Bachelor of Science in Cognitive Science (Computational Emphasis)
Expected Graduation: 2026

Undergraduate specializing in computational cognitive science with interdisciplinary training across computer science, machine learning, data analysis, and human-centered technology.

Relevant training includes algorithms, data structures, machine learning, reinforcement learning, linear algebra, probability/statistics, operating systems, computer organization, and databases. Experienced with Python, C/C++, MATLAB, and modern ML libraries.

RELEVANT COURSEWORK

Computer Science

- ECS 32A – Introduction to Programming (Python)
- ECS 32B – Data Structures (Python)
- ECS 32C – Implementation of Data Structures (C)
- ECS 020 – Discrete Mathematics for Computer Science
- ECS 050 – Computer Organization & Machine-Dependent Programming
- ECS 165A – Database Systems
- ECS 170 – Introduction to Artificial Intelligence

Mathematics

- MAT 021A/B/C – Calculus Series
- MAT 022A – Linear Algebra
- MAT 022AL – Linear Algebra Computer Laboratory (MATLAB)

Cognitive Science

- CGS 107 – Neuroeconomics & Decision Making
  (Decision-making theory, behavioral economics, reinforcement learning)

TECHNICAL SKILLS

Languages: Python, C, C++, MATLAB
Concepts: Data Structures, Algorithms, Reinforcement Learning, Probability & Statistics, Linear Algebra
Tools: PyTorch, Gymnasium, Git, UNIX tools

LEADERSHIP & EXPERIENCE

Women's Rowing at UC Davis — Social Media Manager
May 2023 – August 2024

- Managed multi-platform online presence (Instagram, Facebook, TikTok)
- Designed creative posts and short-form video content
- Increased engagement through analytics-based strategy optimization
- Built collaborations with other rowing programs and local organizations

UC Davis Campus Recreation — Outdoor Gear Rental Associate

- Assisted customers with equipment rentals and safety guidance
- Operated POS system for payments, reservations, and order management
- Maintained and inspected gear to ensure quality and readiness
- Balanced customer service and operational responsibilities in a fast-paced environment