David Radke

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TECHNICAL SKILLS & KEY WORDS

Key Words: Artificial Intelligence, Multiagent Systems, Reinforcement Learning, Deep Learning
Skills: Python, C++, Java, Tensorflow, PyTorch, NumPy, Pandas, ArcGIS

EDUCATION

University of Waterloo   **Waterloo, Ontario, Canada**
PhD Candidate in Computer Science – Average: 94.6%   *August 2018 – Current*
- ❖ Focus: Artificial Intelligence (AI) and Hockey Analytics
- ❖ USports Ice Hockey Player (Assistant Captain)

Colorado College   **Colorado Springs, CO**
Bachelor's Degree in Computer Science, Minor: Discrete Math – GPA: 3.55   *August 2015 – May 2018*
- ❖ Thesis: Using Artificial Neural Networks to Predict Wildfire Growth
- ❖ NCAA Division 1 Ice Hockey Player

EXPERIENCE

University of Waterloo   **Waterloo, Ontario, Canada**
Research and Teaching Assistant   *August 2018 – Current*
- ❖ Spearhead research and develop implementations of AI systems
- ❖ Researcher on hockey analytics project with the National Hockey League (NHL) and Rogers
- ❖ Coordinate TAs and grade assignments and exams for undergraduate courses

Lawrence Livermore National Laboratory   **Livermore, CA**
Research Intern - Computation   *Summer 2018*
- ❖ Ray-tracing and tree optimization in large distributed systems
- ❖ Developed the world's largest 3D boid simulation

The Center for Catastrophic Risk Management, UC Berkeley   **Berkeley, CA**
Undergraduate Research Assistant   *May 2017 – May 2018*
- ❖ Main computer scientist on a research project about the expected effects of wildfire on the infrastructure of California's Transportation Fuel Sector
- ❖ Developed code to collect and process remotely sensed satellite imagery in Google Earth Engine

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AWARDS & AKNOWLEDGMENTS

NSERC PGS-D	Ontario Graduate Scholarship – Declined	2022
Ontario Graduate Scholarship	President's Graduate Scholarship	2021
1st Place Sportsnet Hockey Hackathon	Cheriton Scholarship	Waterloo.AI Scholarship	*2020*
Math Domestic Graduate	Cherrey Bus Lines Award	HockeyTech Award	*2018 & 2019*
Colorado College Thesis selected as a "Top Undergraduate Research Project" by Posters on the Hill	*2018*

RECENT PUBLICATIONS

Exploring the Benefits of Teams in Multiagent Learning	*IJCAI '22*
The Impact of Credo in Multiagent Learning	*ALA at AAMAS '22*
Identifying Completed Pass Tyles and Improving Passing Lane Models (Best Paper Award)	*LINHAC '22*