David Radke, PhD

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TECHNICAL SKILLS & KEY WORDS

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

EDUCATION

University of Waterloo
PhD Candidate in Computer Science – Average: 94.6%   *August 2018 – June 2023*
- ❖ Focus: Artificial Intelligence (AI), Multiagent Systems (MAS), and Hockey Analytics
- ❖ USports Ice Hockey Player (Assistant Captain)

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

EXPERIENCE

Chicago Blackhawks   Chicago, Illinois, USA
Sr. Research Scientist   *June 2023 – Current*
Advisor, AI and Hockey Research (part-time)   *September 2022 – June 2023*
- ❖ Oversee the research and development of analytics models

University of Waterloo   **Waterloo, Ontario, Canada**
Research and Teaching Assistant   *August 2018 – Current*
- ❖ Spearhead research and develop implementations of AI systems

SonyAI America   **North America Remote**
Research Scientist Intern   *September 2022 – December 2022*
- ❖ Intern with the Game AI team developing GT Sophy

Lawrence Livermore National Laboratory   **Livermore, California**
Research Intern - Computation   *Summer 2018*
- ❖ Ray-tracing and tree optimization in large distributed systems

The Center for Catastrophic Risk Management, UC Berkeley   **Berkeley, California**
Undergraduate Research Assistant   *May 2017 – May 2018*
- ❖ Coded on a project about the effects of wildfire on fuel infrastructure

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AWARDS & ACKNOWLEDGMENTS

NSERC PGS-D	2022, 2023
Ontario Graduate Scholarship	2022, 2023
President's Graduate Scholarship	2022, 2023

1st Place Sportsnet Hockey Hackathon| Cheriton Scholarship   2020
Waterloo.AI Scholarship   2020

SELECTED PUBLICATIONS

Towards a Better Understanding of Learning with Multiagent Teams   *IJCAI '23*

The Importance of Credo in Multiagent Learning   *AAMAS '23*

Presenting Multiagent Challenges in Team Sports Analytics   *AAMAS '23*

Exploring the Benefits of Teams in Multiagent Learning   *IJCAI '22*

Identifying Completed Pass Types and Improving Passing Lane Models   *LINHAC '22*

    (Best Paper Award)