

# David Radke

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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

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## 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
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## EXPERIENCE

### Chicago Blackhawks

*Sr. Research Scientist*

*Advisor, AI and Hockey Research (part-time)*

Chicago, Illinois, USA

*June 2023 – Current*

*September 2022 – June 2023*

- ❖ Oversee the research and development of analytics models

### University of Waterloo

*Research and Teaching Assistant*

Waterloo, Ontario, Canada

*August 2018 – Current*

- ❖ Spearhead research and develop implementations of AI systems

### SonyAI America

*Research Scientist Intern*

North America Remote

*September 2022 – December 2022*

- ❖ Intern with the Game AI team developing GT Sophy

### Lawrence Livermore National Laboratory

*Research Intern - Computation*

Livermore, California

*Summer 2018*

- ❖ Ray-tracing and tree optimization in large distributed systems

### The Center for Catastrophic Risk Management, UC Berkeley

*Undergraduate Research Assistant*

Berkeley, California

*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

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## SELECTED PUBLICATIONS

<a href="#"><u>Towards a Better Understanding of Learning with Multiagent Teams</u></a>	<i>IJCAI '23</i>
<a href="#"><u>The Importance of Credo in Multiagent Learning</u></a>	<i>AAMAS '23</i>
<a href="#"><u>Presenting Multiagent Challenges in Team Sports Analytics</u></a>	<i>AAMAS '23</i>
<a href="#"><u>Exploring the Benefits of Teams in Multiagent Learning</u></a>	<i>IJCAI '22</i>
<a href="#"><u>Identifying Completed Pass Types and Improving Passing Lane Models</u></a>	<i>LINHAC '22</i>

(Best Paper Award)