Lucas Carr

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Department of Computer Science,
University of Cape Town
Cape Town, South Africa

Education

University of Cape Town

Bachelor of Computer Science & Philosophy — 2019 – 2022
- *with distinction in Computer Science, distinction in Philosophy, and distinction overall*

Bachelor of Science (Hons) in Computer Science — 2023 – 2024
- *with distinction*
- *Topic: Deep Learning Classification for Encrypted Botnet Traffic*

Master of Science in Computer Science — 2024 – present
- *Topic: Investigating non-monotonic reasoning in Formal Concept Analysis*

Teaching

University of Cape Town

- Introduction to programming (Lecturer) — 2024, 25
- Network and Internet Security (Teaching Assistant) — 2024, 25
- C++ and Machine Learning (Teaching Assistant) — 2024

Awards

Scholarships

- NRF Postgraduate Scholarship — 2025
- Exness Postgraduate Scholarship — 2024, 25
- Merit-based scholarship for University of Cape Town — 2023

Other

- Class medal for CSC4026Z: Network and Internet Security — 2024

Publications

2025

- Carr, L., Leisegang, N., Meyer, T. and Obiedkov, S., 2025, September. Rational Inference in Formal Concept Analysis. In International Joint Conference on Conceptual Knowledge Structures (pp. 325-341). Cham: Springer Nature Switzerland.

2024

- Carr, L., Leisegang, N., Meyer, T. and Rudolph, S., 2024, November. Non-monotonic Extensions to Formal Concept Analysis via Object Preferences. In Southern African Conference for Artificial Intelligence Research (pp. 476-492). Cham: Springer Nature Switzerland.
- Carr L, Chavula J. Deep Learning Classification for Encrypted Botnet Traffic: Optimising Model Performance and Resource Utilisation. InAnnual Conference of South African Institute of Computer Scientists and Information Technologists 2024 Jul 8 (pp. 3-29). Cham: Springer Nature Switzerland.

Research Stays

Technische Universität Dresden — 2024 (4 months)
Topic: Non-monotonic reasoning in Formal Concept Analysis

Technische Universität Dresden — 2025 (3 months)
Topic: Non-monotonic reasoning in Formal Concept Analysis

Last Updated in September, 2025