

Curriculum Vitæ

Sierra Wyllie

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Personal Information

Citizenship:

Canadian and American, willing to relocate or work remotely.

Contact:

sierra@wyllie.net

sierra.wyllie@mail.utoronto.ca

www.syntelliga.net

Languages:

English

Education

2020 - 2025 University of Toronto, Engineering Science (BASc)

2018 - 2020 Western Kentucky University, Gatton Academy (HS Diploma)

2016 - 2020 Henry Clay High School (HS Diploma)

Professional Experience

May - Sept. 2022	Intern, Technical-focus OECD.AI expert group on AI Compute and Climate. Paris, France
May 2021 - Present	Research Intern CleverHans Lab University of Toronto, Toronto, ON and Vector Institute
June - August 2020	Electrical Engineering Intern Space Tango, Lexington, KY
May - August 2019	Undergraduate Researcher Computer Science, Western Kentucky University, Bowling Green, KY

Publications

- [1] A. White, P. O’Boyle, S. Wyllie, and M. Galloway, “The impact of ddos attacks on application containers, system containers, and virtual machines,” in *17th International Conference on Information Technology–New Generations (ITNG 2020)*, S. Latifi, Ed. Cham: Springer International Publishing, 2020, pp. 153–161.
- [2] A. Shahin Shamsabadi, M. Yaghini, N. Dullerud, S. Wyllie, U. Aïvodji, A. Alaagib, S. Gambs, and N. Papernot, “Washing the unwashable : On the (im)possibility of fair-washing detection,” in *The Thirty-Sixth Conference on Neural Information Processing Systems (NeurIPS)*, New Orleans, Louisiana, USA, 2022.

Professional Recognition

- 2020** National Honorable Mention for Aspirations in Computing
National Center for Women in Information Technology
- 2019** First Place Undergraduate Poster
Association for Computing Machinery Mid-Southeast Conference

Grants

ESROP Grant

\$6000 CAD from May 2021-August 2021 from Engineering Science at the University of Toronto to support research in fairness for machine learning. Work was mentored by Prof. Papernot at the CleverHans trustworthy ML research lab.

Faculty Undergraduate Student Engagement Grant

\$3000 from May 2019 - August 2019 from the Western Kentucky University for travel and project-related expenses. The grant was for studying machine learning approaches to network intrusion detection in unmanned aerial vehicle security.

Research Internship Grant

\$1500 from May 2019 - August 2019 from the Gatton Academy for housing and project-related expenses. The grant was for studying machine learning approaches to network intrusion detection in unmanned aerial vehicle security.

Conference Addresses

- 2020** Posters-at-the-Capitol (Frankfort, KY)
Poster: Multiclass Network Intrusion Detection In Drones Using Machine Learning
- 2020** Western Kentucky University Student Research Conference
Presentation: Multiclass Network Intrusion Detection In Drones Using Machine Learning
- 2019** Western Kentucky University Student Research Conference
Poster: Meta-Heuristic Approaches to Dynamic Load Balancing
- 2019** Western Kentucky University Mathematics Symposium
Presentation: Network Intrusion Detection In Drones Using Machine Learning
- 2019** ACM Mid-Southeast Conference
Poster: Binary Network Intrusion Detection In Drones Using Machine Learning

References

Dr. Nicolas Papernot

nicolas.papernot@utoronto.ca

PI of the CleverHans Lab for Trustworthy ML, Asst. Prof at the University of Toronto Department of Electrical and Computer Engineering and the Department of Computer Science and Faculty at the Vector Institute as a Canada CIFAR AI Chair
Research Mentor

Dr. Ali Shahin Shmasabadi

a.shahinshamsabadi@turing.ac.uk

Research Associate at The Alan Turing Institute and visitor at the CleverHans Lab
Research Mentor

Zach Jacobs

zach@faradinesystems.com

Space Tango CuebLab Engineer (Software, Electrical)
Supervisor during internship with Space Tango