

# Kyle Simpson

## Résumé

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Kyle Simpson is a PhD student in the Networked Systems Research Laboratory at the School of Computing Science, University of Glasgow. His research focusses on the use of reinforcement learning and other data-driven techniques in cybersecurity and network management, with a core interest in how they can be empowered by programmable dataplane technology. He has previously acted as an affiliate and research intern at the Lawrence Berkeley National Laboratory.

## University Education

- since 2017 **PhD Degree in Computing Science**, *University of Glasgow*, Scotland  
Supervisor: Prof. Dimitrios P. Pezaros  
Thesis (ongoing): *Programmable, Data-driven Networks for the Masses*
- 2012–2017 **MSci Degree in Computing Science**, *University of Glasgow*, Scotland

## Awards and Scholarships

- 2020 **CoNEXT 2020 Registration Grant**, \$80
- 2017 **EPSRC PhD Scholarship**, approx. £63,500  
Engineering and Physical Sciences Research Council (EPSRC) funded PhD (3.5 years) at the University of Glasgow.
- 2015–2017 **Class Prizes**, £100 ea  
Awarded to the student with the highest GPA in **Level 3** (18.8/22.0), **Hons** (20.7/22.0), and **MSci** (20.3/22.0)

## Publications

- 2021 [1] **Kyle A. Simpson** and Dimitrios P. Pezaros. “Poster: Online RL in the programmable dataplane with OPaL”. In: *CoNEXT’21: The 17th International Conference on emerging Networking EXperiments and Technologies, Virtual Event, Munich, Germany, December 7–10, 2021*. CORE 2021 **Ranking: A**. ACM, 2021, pp. 471–472.
- 2020 [2] **Kyle A. Simpson**, Richard Cziva, and Dimitrios P. Pezaros. “Seiðr: Data-plane Assisted Flow Classification Using ML”. In: *IEEE Global Communications Conference, GLOBECOM 2020, Virtual Event, Taiwan, December 7–11, 2020*. CORE 2020 Ranking: B. IEEE, 2020, pp. 1–6.
- [3] **Kyle A. Simpson**, Simon Rogers, and Dimitrios P. Pezaros. “Per-Host DDoS Mitigation by Direct-Control Reinforcement Learning”. In: *IEEE Trans. Netw. Serv. Manag.* 17.1 (2020). SJR **Ranking: Q1**, pp. 103–117.

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- 2017** [4] Ciaran McCreesh, Patrick Prosser, **Kyle Simpson**, and James Trimble. “On Maximum Weight Clique Algorithms, and How They Are Evaluated”. In: *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*. CORE 2017 **Ranking: A**. 2017, pp. 206–225.