Kyle Simpson

Résumé

Sir Alwyn Williams Building
Glasgow G12 8QN
Scotland, United Kingdom
✉ *k.simpson.1@research.gla.ac.uk*
mcfelix.me
felixmcfelix

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

2020 [1] **Kyle A. Simpson**, Richard Cziva, and Dimitrios P. Pezaros. "Seiðr: Dataplane 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.

[2] **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.

2017 [3] 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.

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