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

2020 [1] **Kyle A. Simpson**, Richard Cziva, and Dimitrios P. Pezaros. "Seiðr: Dataplane Assisted Flow Classification Using ML". In: *2020 IEEE Global Communications Conference: Next-Generation Networking and Internet (Globecom2020 NGNI). To appear*. CORE 2020 Ranking: B. Taipei, Taiwan, Dec. 2020.

[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 Interna-*

tional Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings. CORE 2017 **Ranking: A**. 2017, pp. 206–225.