# Jonatan Langlet

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jonlanglet



# 3rd Year PhD Candidate - Networking Systems

#### Education

#### 2020-Present PhD, Networking Systems, Queen Mary University of London

- Researching high-speed telemetry and streaming data processing through programmable networks
- Advisor: Dr. Gianni Antichi

#### 2019–2020 MSc, Computer Science, Karlstad University

- Thesis: Offloading Virtual Network Functions—Hierarchical Approach
- Advisor: Prof. Andreas Kassler

#### 2016–2019 **BSc. Computer Science**. Karlstad University

- Thesis: Towards Machine Learning Inference in the Data Plane
- Advisor: Prof. Andreas Kassler

### Work Experience

#### Mar-Oct 2022 Research Fellow, HARVARD UNIVERSITY

- · Researching hyperscale streaming data processing systems through data plane programmability
- Advisor: Prof. Minlan Yu

#### 2020–2022 Lab Supervisor & Teaching Assistant, Queen Mary University of London

Teaching and grading in Distributed Systems

#### 2019–2020 Research & Teaching Assistant, Karlstad University

- o Researching programmable network data planes, working with industry on 5G core networks
- Teaching and grading in Data Structures & Algorithms

#### 2011–2016 **Owner/Developer**, TANAPPS

- Sole proprietorship with a main focus on web application development
- Installation and maintenance of a virtualization cluster for hosting clients' applications

#### 2011–2013 **IT Technician**, FOUREDGE

- Server installation/maintenance with a main focus on Linux and virtualization
- Sysadmin consultant for clients, designing and maintaining IT environments
- Second line helpdesk support, troubleshooting server issues

## Extra Courses, Certificates, and Awards

- 2022 Brendan Murphy Prize winner, The prize was awarded for my work on Direct Telemetry Access
- 2021 NVIDIA DPU Course & Hackathon, A crash course on a new programmable NIC
- 2020 Xilinx Adaptive Compute PhD school, A week-long course on FPGA development
- 2019 Barefoot Academy BA-102, A week-long course on programmable switches
- 2012 ITIL Foundation Certification
- 2011 Cisco CCNA Discovery

#### Publications

- IEEE TMC Hybrid P4 Programmable Pipelines for 5g gNodeB and User Plane Functions, Suneet Kumar
  - 2022 Singh, Christian Esteve Rothenberg, Jonatan Langlet, Andreas Kassler, Péter Vörös, Sándor Laki, and Gergely Pongrácz
- ACM HotNets Zero-CPU Collection with Direct Telemetry Access, Jonatan Langlet, Ran Ben Basat, Sivara-2021 makrishnan Ramanathan, Gabriele Oliaro, Michael Mitzenmacher, Minlan Yu, and Gianni Antichi
- IEEE EuroP4 Towards Neural Network Inference on Programmable Switches, Jonatan Langlet, Andreas
  - 2019 Kassler, and Deval Bhamare