Jon Larrea

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INTERESTS Mobile Networks and Computer Networking

EDUCATION Ph.D. in School of Informatics at *The University of Edinburgh*

Jan 2021 – Present

Topic: Towards an unified, flexible and agnostic wireless interface into the client side

MSc by Research in School of Informatics at *The University of Edinburgh*

Dec 2019 – Dec 2020

Program: Comp. Architecture, Compilation & System Software, Networks & Communication

Thesis: Towards Scalable and Realistic Emulation of Mobile Radio Access Networks for Core Network Evaluation

B.S. in Polytechnic School at *Autonomous University of Madrid*

Sep 2015 – Jun 2019

Program: Computer Science Engineering

Thesis: Ad hoc modular OS design for high-performance environments

WORK AR software engineer, VPULab Research Group, Madrid, Spain

Apr 2019 - Aug 2019

EXPERIENCE Malware analyst, S21Sec, Madrid, Spain Sep 2018 – Dec 2018

RESTFul Services developer, Knowledge Engineering Institute, Madrid, Spain Jun 2016 – Sep 2016

PUBLICATIONS Jon Larrea, Mahesh K. Marina and Jacobus Van der Merwe, "Nervion: A Cloud Native RAN Emulator

for Scalable and Flexible Mobile Core Evaluation", ACM International Conference On Mobile Computing

And Networking (Mobicom), Feb 2022.

Rupendra Nath Mitra, Mohamed M. Kassem, **Jon Larrea** and Mahesh K. Marina and Jacobus Van der Merwe, "CUPS Hijacking in Mobile RAN Slicing: Modeling, Prototyping, and Analysis", IEEE Conference

on Communications and Network Security (CNS), Oct 2021.

Jon Larrea and Antonio Barbalance, "The serverkernel operating system", ACM International Workshop

on Edge Systems, Analytics and Networking (EdgeSys), Apr 2020.

TEACHING Computer Communications and Networks, University of Edinburgh Spring 2020 and Spring 2021

Roles: Teaching Assitant and Marker

AWARDS Huawei PhD Scholarship

SCHOLARSHIPS Huawei MSc by Research Scholarsh

Madrid Merit Scholarship

Huawei MSc by Research Scholarship Dec 2019 – Dec 2020

Autonomous University of Madrid Research Scholarship

2019 2018 – 2019

Jan 2021 - Dec 2023

SKILLS Areas of expertise

Networking, Systems design and implementation, Mobile Networks, Network programing, Linux

Languages

C, Python, Java, C#, Assembler 8086, ARM Assembly, Makefile, Bash Script

SELECTED Nervion

PROJECTS A cloud-based RAN emulator that supports the generation of CP and DP loads for 4G and 5G networks using a novel

design that enables scalability and flexibility.

ionOS

Single space-address operating system for Raspberry Pi that allows the user to offload computations and get the result.

[CV compiled on 2021-09-08]