

Jon Larrea

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INTERESTS	Mobile Networks and Computer Networking	
EDUCATION	Ph.D. in School of Informatics at <i>The University of Edinburgh</i>	Jan 2021 – Present
	Topic: Towards an unified, flexible and agnostic wireless interface into the client side	
	MSc by Research in School of Informatics at <i>The University of Edinburgh</i>	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	
WORK EXPERIENCE	B.S. in Polytechnic School at <i>Autonomous University of Madrid</i>	Sep 2015 – Jun 2019
	Program: Computer Science Engineering	
	Thesis: Ad hoc modular OS design for high-performance environments	
	AR software engineer , VPULab Research Group, Madrid, Spain	Apr 2019 – Aug 2019
	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, “ <i>Nervion: A Cloud Native RAN Emulator for Scalable and Flexible Mobile Core Evaluation</i> ”, 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, “ <i>CUPS Hijacking in Mobile RAN Slicing: Modeling, Prototyping, and Analysis</i> ”, IEEE Conference on Communications and Network Security (CNS), Oct 2021.	
	Jon Larrea and Antonio Barbalance, “ <i>The serverkernel operating system</i> ”, 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
AWARDS SCHOLARSHIPS	Roles: Teaching Assistant and Marker	
	Huawei PhD Scholarship	Jan 2021 – Dec 2023
	Huawei MSc by Research Scholarship	Dec 2019 – Dec 2020
	Autonomous University of Madrid Research Scholarship	2019
SKILLS	Madrid Merit Scholarship	2018 – 2019
SELECTED PROJECTS	Areas of expertise	
	Networking, Systems design and implementation, Mobile Networks, Network programming, Linux	
	Languages	
	C, Python, Java, C#, Assembler 8086, ARM Assembly, Makefile, Bash Script	
	Nervion	
	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.	
	jonOS	
	Single space-address operating system for Raspberry Pi that allows the user to offload computations and get the result.	

[CV compiled on 2021-11-18]