

Jon Larrea

Room 1.17, Informatics Forum, 10 Crichton Street, Edinburgh EH8 9AB, UK
jon.larrea@ed.ac.uk • +44 (0)7718 678869 • <https://jolama.github.io/>

INTERESTS	Mobile Networks and Computer Networking	
EDUCATION	Ph.D. in School of Informatics at <i>The University of Edinburgh</i>	Jan 2021 – Present
	<i>Topic:</i> Towards Future Mobile Networks: From Cloud Native Systems to Intelligent Access	
	MSc by Research in School of Informatics at <i>The University of Edinburgh</i>	Dec 2019 – Dec 2020
	Program: ICSA (Comp. Architecture, Compilation System Software, Networks Communication) <i>Thesis:</i> 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 and Engineering <i>Thesis:</i> Ad hoc modular OS design for high-performance environments	
	Research Intern , Microsoft Research, Cambridge, UK	Jun 2022 – Sep 2022
	Computer Communications and Networks , University of Edinburgh	Spring (2020, 2021 and 2022)
	Roles: Teaching Assistant and Marker	
	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> ”, in ACM International Conference on Mobile Computing And Networking (MobiCom’21), Feb 2022.	
	Rupendra Nath Mitra, Mohamed M. Kassem, Jon Larrea and Mahesh K. Marina, “ <i>CUPS Hijacking in Mobile RAN Slicing: Modeling, Prototyping, and Analysis</i> ”, in IEEE Conference on Communications and Network Security (CNS), Oct 2021.	
	Jon Larrea and Antonio Barbalance, “ <i>The serverkernel operating system</i> ”, in ACM International Workshop on Edge Systems, Analytics and Networking (EdgeSys’20), Apr 2020.	
AWARDS	ACM Student Research Competition	Mar 2022
SCHOLARSHIPS	1 st place in ACM SRC at MobiCom 2021.	
	PhD Studentship	Jan 2021 – Dec 2023
	School of Informatics, The University of Edinburgh	
	MSc by Research Studentship	Dec 2019 – Dec 2020
	School of Informatics, The University of Edinburgh	
	Research Scholarship	2019
	Autonomous University of Madrid	
SKILLS	Madrid Merit Scholarship	2018 – 2019
	Community of Madrid	
SELECTED PROJECTS	Areas of expertise	
	Networking, Systems design and implementation, Mobile Networks, Network programing, Linux	
	Languages	
	C, C++, Python, Java, C#, Assembler 8086, ARM Assembly, Makefile, Bash Script	
REFERENCES	Nervion	
	A cloud-based RAN emulator that supports the generation of control and data plane loads for 4G and 5G networks using a novel design that enables scalability and flexibility.	
	Serverkernel	
	Single space-address operating system for Raspberry Pi that allows the user to offload computations and get the result.	
REFERENCES	Mahesh K. Marina	