Nicolas Meseguer Iborra

Portfolio:	nicolasmeseguer.g	ithub.io
Cithuh	withub com /Nicol	a Magamur

Github: github.com/NicolasMeseguer

Education

• Universidad de Murcia	Murcia, Spain	
 Doctor of Philosophy (Ph.D.) - Computer Architecture Goal: Suggest approaches for addressing two transcendental concerns in the design of a heterogene 	September 2022 - Present	
novel organizations for the memory structures and (2) share the same memory space across genera accelerators.		
Universidad de Murcia	Murcia, Spain	
• Master of Science (M.S.) - New Technologies in Computer Science; GPA: 9.24	September 2021 - June 2022	
Courses: High Performance Computing and Architecture, Microarchitecture of the processing core. Compiler-optimised libraries, High performance system administration	s, Parallel programming standards,	
Universidad Catolica San Antonio de Murcia	Murcia, Spain	
Intern Student	October 2019 - June 2020	
Objectives: Introduction to Machine Learning (ML) and Deep Learning (DL) using novel-models:		
• Universidad Catolica San Antonio de Murcia • Bachelor of Science (B.S.) - Computer Engineering; GPA: 9.31	Murcia, Spain October 2018 - June 2021	
Courses: Computer Programming, Information Science, Networking, Operating Systems, Database		
Architecture, Algorithms, Data Structures	5, 11400000000, 50,0000000	
IES Jose Planes	Murcia, Spain	
• Higher National Certificate (HNC) - Web App Developer; GPA: 8.84	September 2016 - June 2018	
Courses: Databases, High-level Computer Architecture, Web Language, Client and Server side fra	meworks, Usability and UX+UI	
Honors and Awards		
• Third place in Hack4Good 24' with a comprehensive telemedicine platform with seve	eral stakeholders - Mar, 2024	
• Programa Séneca 2022, research contract at the University of Murcia - Dec, 2022		
• Second place in Mercedes-Benz Talent Highway with a predictive analytical market n	model - Nov, 2022	
• University scholarship for the master's degree (M.S.) - Nov, 2022		
• Telefónica Hack4Good 22' Winner, with an application against zero food waste - Oct	z, 2022	
• Extraordinary Award for the <u>Best Academic Record</u> in Computer Engineering (B.S.	Degree) - Jun, 2022	
• Research Initiation Grant for promising young researchers (B.S. Degree) - Feb, 2021		
• Erasmus+ Scholarship for a european internship (HNC Degree) - Mar, 2018		
Experience		
Universidad de Murcia	Murcia, Spain	
• Fundación Séneca Researcher (Full-time)	Mar 2023 - Present	
• Objectives : Suggest approaches for addressing two transcendental concerns in the de memory system. 1) novel organizations for the memory structures employed by cores. present virtual memory concepts in order to more efficiently share the same memory s	2) investigate alternatives to	
Mowatave	Murcia, Spain	
• Chief Technology Officer	Jan 2023 - Present	
• Objectives : Strategic technology development, technical leadership and innovation, e fostering communication and collaboration, and promoting staff training and development.		
• Universidad de Murcia • Postgraduate extracurricular research internship (Part-time)	Murcia, Spain Nov 2022 - Dec 2022	
• Objectives: Recently a GPU architecture simulator (MGPUSim) has been publicly r		
wants to add it to its catalog of simulation tools for research. The student will have to in the group's computing cluster, as well as prepare the necessary software infrastruct	install and configure the simulator	
• Universidad Catolica San Antonio de Murcia • Research Initiation Grant (Part-time)	Murcia, Spain Feb 2021 - Jul 2021	
• Objectives : In charge of developing a hybrid accelerator (CPU+GPU) for a recomme (DLRM, WATERoT) using specialized accelerator architectures for inference (SIGMA the model efficiency, waiting times and studying memory accesses (W/R) and total cy	, MAERI). Aiming at maximizing	
Plinga GmbH	Berlin, Germany	
Full-stack Web Developer Erasmus+ Internship (Full-time)	Apr 2018 - Sep 2018	
• Experience acquired : First-hand experience on front-end and back-end of various F Amazon AWS services (EC2 servers, Databases and CDNs)	'HP and Ruby projects, including	

PUBLICATIONS

- CPU-PCGCN: Efficient Processing of Convolutional Graph Networks on CPU Architectures: Poster in 19th International Summer School on Advanced Computer Architecture and Compilation for High-performance Embedded Systems (Fiuggi, Italy, July '23)
- CPU-PCGCN: Procesamiento Eficiente de Redes Convolucionales de Grafos en Arquitecturas CPU (Deep Learning, Graph Neural Networks): Work in XXXII Jornadas de Paralelismo (JP). Tech: Python, PyTorch, C++, C, Bash (Alicante, Spain, September '22)
- Evaluacion de un Sistema de Recomendacion en un Acelerador Hibrido (Deep Learning, Recommender System): Work in XXXI Jornadas de Paralelismo (JP). Tech: Python, PyTorch, C++, Bash (Málaga, Spain, September '21)

ACADEMIC EXPERIENCE

- Multi-core and Purpose-built Architectures Teaching Assistant – 2.50 ECTS
- Introduction to Operating Systems • Teaching Assistant – 2.50 ECTS
- Multi-core and Purpose-built Architectures • Teaching Assistant – 2.50 ECTS

Students

• José Ángel Nicolás Ortega Register Bank Modeling on GPUs with MGPUSim University of Murcia February 2024 - June 2024 University of Murcia September 2023 - January 2024 University of Murcia February 2023 - June 2023

> 9.9 Honorable Mention September 2022 - June 2023