

Doctorate in Computer Science. Knight Foundation School of Computing and Information Sciences. Mobile: +1-786-665-5542 Email: lvald108@fiu.edu, lianavaldesrdguez@gmail.com Web: https://lvald.netlify.app/, GitHub: https://github.com/lia54

VB, HLA, TensorFlow, Pytorch, Scikit-learn, Docker, GitLab, VS Code.

Florida International University (FIU). Miami, FL.	Web: https://lvald.netlify.app/, GitHub: https://github.com/lia54
EDUCATION	
Florida International University	21 August 2017 - 16 December 2023
Doctor of Philosophy in Computer Science	GPA: 3.83/4
Florida International University	21 August 2017 - 17 December 2022
Master of Science in Computer Science	GPA: 3.83/4
Technological University of Havana "José Antonio Ecl	heverría" 1 September 2009 - 28 July 2014
Bachelor of Science in Electronics and Telecommunications Engineering	Havana, Cuba
Faculty of Telecommunications Engineering	GPA: 4.48/5
Research Projects	
Extending storage systems to meet the needs of cloud archite	ectures Seagate Technology & SyLab (FIU) August 2021
• Developed transactional coupling and reliable notification techniques	s to implement feature plugins such as encryption and compression.
• Designed TxFuse, a novel architecture, to extend a distributed storage system and improve performance and efficiency.	
A distributed cache for cloud data centers SyLab, ModLab,	, DAMRL (FIU) & HASLab (UMinho) May 2020
• Improved hit rates, data center services, and microservices with a dist	tributed cache that unified resources for reads and writes.
• Developed CaaS, a novel, distributed, and generalized cache for cloud	d computing infrastructures.
ML systems for optimality analysis of cache replacement Sy	VLab, ModLab & BioRG (FIU)August 2019
• Developed ML models and systems to improve the performance of care	che replacement algorithms.
• Analyzed the optimality of cache replacement algorithms for systems i	in the cloud.
ML systems for caches in the cloud SyLab, ModLab, BioRC	G (FIU) & VISA (ASU) August 2018
• Developed ML systems LeCaR and CACHEUS to improve cache hit r	rates compared to classic cache replacement algorithms for the cloud.
EXPERIENCE	
Team Leader Florida International University, FL, USA	August 2018 - December 2023
Communicated team objectives, generated ideas, defined problems, an	nd created and implemented team plans.
Graduate Research Assistant/GAANN Fellowship Florida Inter	national University, FL, USA August 2017 - December 2023
• Developed LeCaR and CACHEUS (94.38% hit rate), ML systems for	cache replacement, and CaaS, a novel distributed caching system.
Research Intern Seagate Technology, California, USA	August 2021 - December 2021
• Iested the CORIX's software stack, the File Data Manipulation Inter Descendent Intern Microsoft Descende (MSD) Combridge England	face (FDMI), and conducted a performance study on Motr storage.
Developed MI systems to identify anomalies when tested using data fi	rom the Warner Bros movie "Superman" written on glass
Telematics Specialist B Cuban Telecommunications Company (ETE	CSA). Havana. Cuba September 2015 - June 2016
• Maintained uninterrupted communication services for the computing	infrastructures such as the cloud.
Research Intern/Apprenticeship Cuban Radiocommunications Com	pany (RadioCuba), Havana, Cuba March 2012 - July 2014
Modified changes in the Ultra High Frequency (UHF) communication	n module board layout.
HONORS & AWARDS	Skills
USENIX Student Travel Award, FAST'18 & FAST'19 & FAST'23.	Machine Learning, Reinforcement Learning, Deep Learning, Storage,
GAANN Fellowship from the ED, 2022 and 2023	
$C_{\text{A}} = \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right) \left(\frac{1}{2$	Supervised Learning, Unsupervised Learning, AI, Cache Replacement,

October 2023
July 2022
July 2021
February 2021
July 2018

10th USENIX Workshop on Hot Topics in Storage and File Systems, HotStorage'18.

Grace Hooper Celebration of Women in Computing, 2019 and 2022.

USENIX SREcon24 Europe/Middle East/Africa Award, 2024.