Alejandro Flores Lamas

PhD in Computer Science

✉ Mexico

🌐 https://alexfloreslamas.github.io/

@ alexfloreslamas@gmail.com

About me

PhD in Computer Science, actively **seeking opportunities** to further develop my research skills in algorithm analysis and design. **My goal is** to conduct high-quality research both independently and collaboratively, embracing diverse perspectives and expanding the scope of my work. **My current focus is** on algorithms for graphs, including approximation algorithms, parameterized complexity, string constraint algorithms, and the reconstruction of evolutionary histories.

Skills

macOS & Microsoft Windows

Linux

iWork, Microsoft Office & LaTeX

Python & NetworkX

Java & R

Ruby, C++, Visual Basic, .NET, Igraph

GitHub & GitLab

Spanish language

English language

German & French languages

Interests

My research centres on the analysis and design of **algorithms for graphs**, with a recent interest on **approximation algorithms** and **parameterised complexity**. Additionally, I am engaged in the study of **string constraint algorithms** and the **reconstruction of evolutionary histories**.

Education

2012-2018	**MSc (2014) & PhD (2018) in Computer Science** CICESE Research Center, *Mexico*	
2007-2012	**BEng Computer Engineering** Universidad Autónoma de Zacatecas, *Mexico*	
2009-2010	**Visiting student (BEng Computer Engineering)** University of Manitoba, *Canada*	
2006-2007	**ESL, English as Second Language** University of Belize, *Belize*	

Publications

Please refer to my website at https://alexfloreslamas.github.io/. Alternatively, if you would like a comprehensive overview of my credentials, please feel free to request a full CV.

Research Experience

2024-present	**Research Associate** Cinvestav Research Center, *Mexico*
2020-2023	**Postdoctoral Research Assistant** Royal Holloway, University of London, *United Kingdom*
2019-2019	**Research associate** The Artificial Intelligence Consortium of CONACYT Public Ctrs., *Mexico*
2015-2018	**PhD in Computer Science** CICESE Research Center, *Mexico*
2010-2012	**Electrical Engineering Council Member** CICESE Research Center, *Mexico*

Teaching Experience

2024	Introductory Programming at Cinvestav Research Center, *Mexico*.
2022	CS1822/DC1821 catch-up sessions (*Autumn term*) & T.A. of CS1822 (*Spring term*) at Royal Holloway, University of London, *UK*.
2022	An Introduction to Parameterized Complexity Theory (online co-teaching, May-August) at CICESE Research Center, *Mexico*.
2019	Mathematics for Algorithms (short course), CICESE RC, *Mexico*.
2016-2018	T.A. of the Analysis of Algorithms course at CICESE Research Center.
2010-2012	Analysis of Algorithms & Discrete Mathematics at CASE-UAZ (The Student Learning Services Center at The Autonomous University of Zacatecas), *Mexico*.

Grants & Awards

2022	SNI candidate level (Early Career Researcher), Mexican National System of Researchers.
2012-2018	CONACYT, National Scholarship for Master's studies (2012-2014) & National Scholarship for Doctoral studies (2015-2018).
2012	Academic Excellence, ANFEI National Association of Faculties and Engineering Schools.
2011	COZCYT, State Scholarship for Bachelor's studies.
2009-2010	The North American Engineering Innovation and Training Program.
2006-2007	The University of Belize, in partnership with the Ministry of Education, Cultural Science Technology.