

ALEJANDRO FLORES V.

PERSONAL INFORMATION

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RESEARCH: My current research focuses on problems related to the Nearest Neighbor (NN) classifier. In particular, I am working on the development and analysis of algorithms for the problem of training-set reduction for the NN classifier, while providing theoretical guarantees. This is an ongoing work under the supervision of Prof. *David Mount*.

EDUCATION

Ph.D. in Computer Science
2015-present University of Maryland, College Park
Third year Ph.D. student at UMD working on Computational Geometry.

M.Sc. in Computer Science
2015-2018 University of Maryland, College Park
Scholarly paper “*Nearest Neighbor Condensation with Guarantees*” under the supervision of Prof. *David Mount*. Coursework taken (GPA 3.728):

- Computational Geometry · Prof. *David Mount*
- Network Design Foundation · Prof. *Mohammad T. HajiAghayi*
- Randomized Algorithms · Prof. *Aravind Srinivasan*
- Computational Complexity · Prof. *Xiaodi Wu*
- Advanced Computer Graphics · Prof. *Matthias Zwicker*
- Logic and Artificial Intelligence · Prof. *V.S. Subrahmanian*
- Database Management Systems · Prof. *Amol Deshpande*
- Computational Genomics · Prof. *Mihai Pop*
- Network Analysis & Modeling of Biological Systems · Prof. *Eytan Ruppin*
- Fundamentals of Software Testing · Prof. *Atif Memon*

B.Eng. in Computer Science
2009-2014 Universidad Simón Bolívar
Cum Laude (GPA 4.269/5). Specialization in:

- Algorithm Design (covering Theory of Computation & Metaheuristics)
- Artificial Intelligence (covering Automated Planning & Machine Learning)

Bachelor’s thesis “*Bio-inspired Metaheuristics for Instance Selection*” awarded *Outstanding Honorable Mention*, under the supervision of Prof. *Emely Arráiz*.

PUBLICATIONS

FWCG 2017 Nov, 2017 Nearest Neighbor Condensation with Guarantees
Alejandro Flores, David Mount

EKAW 2016 Nov, 2016 Considering Semantics on the Discovery of Relations in Knowledge Graphs
Ignacio Traverso Ribn, Guillermo Palma, **Alejandro Flores**, Maria-Esther Vidal

Data Integration in the Life Sciences June, 2015 Combining Multiple Knowledge Sources: A Case Study of Drug Induced Liver Injury
Casey L. Overby, **Alejandro Flores**, Guillermo Palma, Maria-Esther Vidal, Elena Zotkina, Louiqa Raschid

9th Alberto
Mendelzon
Workshop

May, 2015 Exploiting Semantics to Predict Potential Novel
Links from Dense Subgraphs

Alejandro Flores, María-Esther Vidal and Guillermo Palma

COLD workshop
at 12th ISWC

October, 2013 Choosing Between Graph Databases and RDF
Engines for Consuming and Mining Linked Data

Domíngó De Abreu, **Alejandro Flores**, Guillermo Palma, Valeria Pestana, José Piñero, Jonathan Queipo, José Sánchez and María-Esther Vidal

POSTERS / DEMOS

11th ESWC
Posters & Demos

May, 2014 Graphium Chrysalis: Exploiting Graph Database
Engines to Analyze RDF Graphs

Alejandro Flores, Guillermo Palma and María-Esther Vidal

12th ISWC
Posters & Demos

October, 2013 GRAPHIUM: Visualizing Performance of Graph
and RDF Engines on Linked Data

Alejandro Flores, Guillermo Palma, María-Esther Vidal, Domíngó De Abreu, Valeria Pestana, José Piñero, Jonathan Queipo and José Sánchez

TUTORIALS

11th ESWC

May, 2014 Semantic Data Management in Graph Databases

Alejandro Flores, María-Esther Vidal, Edna Ruckhaus, Maribel Acosta and Cosmin Basca

WORKING EXPERIENCE

University of
Maryland

2015-present Teaching Assistant

Working as a Teaching Assistant for the *Department of Computer Science* at UMD, leading discussion sessions and grading for CMSC 131, 132, 423 and 425 (Object-Oriented Programming, Bioinformatics, and Game Programming).

Universidad
Simón Bolívar

2013-2014 Research Assistant

I've been an undergraduate research assistant for the *Department of Computer Science and Information Technology* at *Universidad Simón Bolívar*, as a member of the GRAPHIUM project, under the supervision of professor *María-Esther Vidal*.

Universidad
Simón Bolívar

2012-2015 Teaching Assistant

I worked as a teaching assistant for the *Department of Computer Science and Information Technology* at *Universidad Simón Bolívar*, helping with the courses *Symbolic Logic* and *Algorithm Design* I and II. Additionally, I taught the Lab courses of *Algorithms & Data Structures* I and III (*i.e.* Computer Science 101 and Graph Theory).

Venezuela
Inteligente

2012-present Co-founder/Lead Developer

Venezuela Inteligente is a civil rights organization that promotes the use of technology for the benefit of society. As part of this organization, I've developed two projects:

1. ComoVotar.com (*How to vote?* in spanish) is an interactive website that simulates the entire electronic voting process in Venezuela; it has been used by over one million people.
2. VeSinFiltro.com (*Watch without filter* in spanish) was built to help internet users in Venezuela to overcome the increasing censorship both on TV and the Internet. Used by over 25 thousand people to date.

2010 Developer

VotoJoven

VotoJoven is a civil rights organization that promotes the vote among the youth in Venezuela. For the 2010 parliamentary elections in Venezuela, I developed an interactive website to help people understanding the complex election process it was about to take place. More than 220.000 people visited it the week before the elections. This was the previous work for ComoVotar.com

COMPUTER SKILLS

<i>Programming Languages</i>	C/C++, JAVA, R and HASKELL (Solid knowledge). PYTHON, MATLAB, PROLOG and PASCAL (Basic knowledge).
<i>API's/Others</i>	NEO4J, SPARKSEE, SPARQL, SQL.
<i>Markup&Web</i>	L ^A T _E X, HTML+CSS, JAVASCRIPT, Jekyll.
<i>Operating Systems</i>	Mac OS X, Linux, Windows.

OTHER INFORMATION

ACM-ICPC

2013 · Ranked 4th (1st in Venezuela) at the South America-North Regional Contest. Ranked 2nd on the local contest. Team "FTL".

2012 · Ranked 18th (4th in Venezuela) at the South America-North Regional Contest. Ranked 1st on the local contest. Team "FTL".

2011 · Ranked 37th (8th in Venezuela) at the South America-North Regional Contest. Ranked 3rd on the local contest. Team "Faster Than Light".

Awards

2015-2016 · Dean's Fellowship, University of Maryland.

2015 · AMW (Alberto Mendelzon Workshop) Travel Award.

2013 · Student Travel Award for the 12th ISWC (*International Semantic Web Conference*) at Sydney, Australia. I was also a Student Volunteer at the conference.

2012 · First team at the CEIDEC Programming Contest. Team "FTL" (Alejandro Flores, Simón Castillo and Jonathan Queipo).

2001-2009 · Venezuelan Mathematical Olympiad.

National contests: 2 bronze medals and 1 honorable mention.

Regional contests: 3 gold , 1 silver and 1 bronze medals.

2005-2009 · Best Student award at High School.

Languages

SPANISH · Mother tongue

ENGLISH · Fluid