

ALEJANDRO FLORES V.

PERSONAL INFORMATION

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EDUCATION

*Ph.D. in
Computer Science* 2015-present University of Maryland, College Park
Third year Ph.D. student. Interested in Computational Geometry, and Theoretical CS in general. 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

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, Maria-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
Domínguez De Abreu, **Alejandro Flores**, Guillermo Palma, Valeria Pestana, José Piñero, Jonathan Queipo, José Sánchez and Maria-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, Domingo 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

- 2015-present Teaching Assistant
- University of Maryland
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).
- 2014-2015 Teaching Assistant
- Universidad Simón Bolívar
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*.
- 2013-2014 Undergraduate Research Assistant
- Universidad Simón Bolívar
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*.
- 2012 Undergraduate Teaching Assistant
- Universidad Simón Bolívar
As an undergraduate teaching assistant for the *Department of Computer Science and Information Technology* at *Universidad Simón Bolívar*, I taught the Lab courses of *Algorithms & Data Structures I and III* (i.e. Computer Science 101 and Graph Theory).
- 2012-present Co-founder/Lead Developer
- Venezuela Inteligente
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

<i>ACM-ICPC</i>	<p>2013 · Ranked 4th (1st in Venezuela) at the South America-North Regional Contest. Ranked 2nd on the local contest. Team "FTL".</p> <p>2012 · Ranked 18th (4th in Venezuela) at the South America-North Regional Contest. Ranked 1st on the local contest. Team "FTL".</p> <p>2011 · Ranked 37th (8th in Venezuela) at the South America-North Regional Contest. Ranked 3rd on the local contest. Team "Faster Than Light".</p>
<i>Awards</i>	<p>2015-2016 · Dean's Fellowship, University of Maryland.</p> <p>2015 · AMW (Alberto Mendelzon Workshop) Travel Award.</p> <p>2013 · Student Travel Award for the 12th ISWC (<i>International Semantic Web Conference</i>) at Sydney, Australia. I was also a Student Volunteer at the conference.</p> <p>2012 · First team at the CEIDEC Programming Contest. Team "FTL" (Alejandro Flores, Simón Castillo and Jonathan Queipo).</p> <p>2001-2009 · Venezuelan Mathematical Olympiad. National contests: 2 bronze medals and 1 honorable mention. Regional contests: 3 gold , 1 silver and 1 bronze medals.</p> <p>2005-2009 · Best Student award at High School.</p>
<i>Languages</i>	<p>SPANISH · Mother tongue</p> <p>ENGLISH · Fluid</p>