

# SERGIO BOTERO URIBE

First name: Sergio, Last name: Botero Uribe

---

• [sergiobuj@gmail.com](mailto:sergiobuj@gmail.com)

---

## EDUCATION

### Universidad EAFIT (Medellín, Colombia)

#### Software Engineering

Jan 2007 - Dec 2011 (Graduation Jun 2012)

Cumulative (GPA): 4.1/5

Selected Coursework:

**Computer Science:** Programming Languages · Data Structures and Algorithms · Operating Systems · Computer Architecture · Software Engineering

### Training on the Hubzero project - Purdue University

Aug 2011 - Dec 2011

Training on the implementation and support for a supercomputing platform and the project that enables its usage.

---

## WORK HISTORY

### Universidad EAFIT (Medellín, Colombia)

#### Research in Spatial Economics, RiSE Group (Mar 2013 - Mar 2014)

##### Clusterpy programmer

- Code optimization of the clustering algorithms available in the Clusterpy library  
<https://github.com/clusterpy>.
  - Some work on algorithm optimization and parallelization of the library.
- Project to make available the Clusterpy library on EAFIT's Apolo computer cluster.
- In charge of the general development of the Clusterpy library (Fix issues, plugins, new code).

### Universidad EAFIT (Medellín, Colombia)

#### Visiting Scientist at C.E.C.I. Laboratory at MIT (Oct 2012 - Feb 2013)

##### Programmer LabManager Project

- Project to integrate multiple Remote laboratory systems (e.g. iLabs, Deusto) in different Learning Management Systems, and allow students to access remote laboratories from their course contents.
- Working on the LMS to LabManager communication.
- Project is at <http://www.github.com/lms4labs/labmanager>

### Universidad EAFIT (Medellín, Colombia)

#### R+D In Computer in Education (Jan 2011 - Jul 2012)

##### Intern Research Assistant

- Ubiquitous technology project: Interactive TV application to let children in rural areas learn about their context.
  - (Side project) Developed an iOS application for the university. Let students access grades, class schedule and general information.
- Project for the implementation of a NanoHub mirror for Latin America.
  - Creation of scripts for automated installs of computer cluster.

- (Side project) Started a Web application to help people create submission files required to send a job to a cluster that uses Condor HTC.

#### **Kogi Mobile (Medellín, Colombia) (September 2011)**

##### **iOS developer**

- Work on the technical development of iOS applications.
  - Worked on adapting a video advertising component for a TV show application.
  - Worked on the development of a new version for an already existing application.

#### **39 Inc (May 2012 - September 2012)**

##### **iOS developer**

- Part of the iOS development team.
  - Developer of a native iOS application for an existing Web application.
  - Worked on the development of a new application. Had to solve issues with memory management, networking and basic table views.

---

#### CONTESTS

- Fifth place, South American Contest ACM ICPC, Universidad de los Andes, 2009
- First place, Third GEMIS-OE Programming Contest, Universidad EAFIT, 2009

---

#### CONFERENCES

2013

Pablo Orduña, Sergio Botero, Nicolas Hock, Elio Sancristobal, Mikel Emaldi, Alberto Pesquera Martin, Kimberley DeLong, Philip Bailey, Diego López-de-Ipiña, Manuel Castro, Javier Garcia-Zubia. *Generic integration of remote laboratories in learning and content management systems through federation protocols*. Frontiers in Education Conference (FIE). [To be presented in October 2013]

---

#### SKILLS

- Proficient with GNU/Linux and Mac OS X.
- Familiar with C, Objective-C, Python, Git scm, Shell Scripting.

---

#### LANGUAGES

- Spanish - Excellent (Native)
- English - Good (TOEFL iBT 97/120)
- Italian - Good (Level 11/16)

---

#### ENTREPRENEUR / STARTER PROJECTS @ ZINERGIA

##### **Zinergia (Current)**

##### **Developer**

Zinergia is a small business idea to build web and mobile applications.  
Most projects are for the local fashion industry.

You can find us on <http://zinergia.co>

## PERSONAL PROJECTS

---

- All projects and current work can be found at my GitHub profile (<https://github.com/sergiobuj/>)
- Business QR Card App for iPhone (Not in store anymore)

## REFERENCES

---

### **Juan C. Duque, Ph.D.**

Economics Department - RiSE Group Director  
Universidad EAFIT  
Office: 26-217  
Telephone: +574 261-9500 Ext. 9993  
Address: Carrera 49 7 Sur-50  
Medellín, Colombia  
email: [jduquec1@eafit.edu.co](mailto:jduquec1@eafit.edu.co)

### **Juan G. Lalinde-Pulido, Ph.D.**

Software Engineering Department  
Universidad EAFIT  
Address: Carrera 49 7 Sur-50  
Medellín, Colombia  
email: [jlalinde@eafit.edu.co](mailto:jlalinde@eafit.edu.co)