

## ***Eduardo Berrocal, Ph. D.***

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### **Experience**

**Intel** (Hillsboro, OR), Cloud and Enterprise Server Software Engineer, 2017 –

- ✓ *Platform launch software support for new persistent memory technology.*

**Bell Labs (Nokia)** (Murray Hill, NJ), Summer Internship, 2016

- ✓ *Worked on the development of a new Big Data analysis platform as part of a new data-driven approach for helping virtualization of components in future 5G End2End Wireless Networks.*

**Argonne National Laboratory** (Argonne, IL), Research Aide, summers of 2014 and 2015

- ✓ *Worked in a novel approach to protect HPC applications against Silent Data Corruptions (SDC) in a lightweight manner based on the applications' data behavior. This work produced multiple publications.*
- ✓ *Collaborated in the development of the AWE project (a workflow engine coded in Golang), adding new features. Also worked in some bioinformatics research projects.*

**University of Chicago** (Chicago, IL), Applications' Programmer, 2009 – 2012

- ✓ *Web application developer for Lynx (<http://lynx.ci.uchicago.edu>), a web portal to help geneticists (specially human geneticists) with their informatics needs during their research.*

**Universidad Politécnica de Madrid** (Madrid, Spain), 2006 – 2007

- ✓ *Internship at Madrid Super Computation and Visualization Center (CESVIMA), working in the Blue Brain Project, a large scale collaboration between industry and multiple universities in Europe, developing software for scientific visualization.*

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### **Volunteering**

**Centro Cultural**, (Cornelius, OR), 2018

- ✓ *Hands-on fun day to get students, predominately underrepresented minorities in STEAM, of multiple age groups, excited about technology and STEAM careers. My workshop was about programming video-games with Python.*

**Thinkers & Tinkerers**, (Hillsboro, OR), 2018

- ✓ *The goal of T&T is to encourage middle school students from minority and underrepresented communities to pursue STEAM careers.*

**Student Volunteer for Super Computing (SC) conference**, 2013 – 2016

- ✓ *Regular volunteer for SC13 (Denver, CO) and SC14 (New Orleans, LA); SCinet volunteer for SC15 (Austin, TX) and SC16 (Salt Lake City, UT).*

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## **Education**

### **Ph.D., Computer Science** (Chicago, IL), 2012 – 2017

Illinois Institute of Technology

- ✓ *GPA: 3.62/4.0*
- ✓ *Awards*
  - ◆ Best Paper Award in *Proceedings of IEEE Cluster '14*, 2014
- ✓ *Scholarships*
  - ◆ NSF travel grant for ACM HPDC conference, 2015
  - ◆ NSF travel grant for IEEE Cluster conference, 2014
  - ◆ Victor Tsao travel scholarship, 2014
- ✓ *Research Assistant*
  - ◆ *Research has focused on applying data analysis techniques to solve problems in High Performance Computing (HPC) systems such as hardware fault prediction*
- ✓ *Teaching Assistant*
  - ◆ Introduction to Parallel and Distributed Processing (Spring 2015)
  - ◆ Data Integration, Warehousing, and Provenance (Spring 2015)
  - ◆ Advance Operating Systems (Fall 2013, Fall 2014)
  - ◆ Parallel and Distributed Processing (Spring 2013, Spring 2014)
- ✓ *CUDA Teaching Center at IIT*
  - ◆ Building and maintaining a 19-node GPU computing cluster used for both teaching and research
  - ◆ Teaching introductory lectures on GPGPU programming with CUDA for courses in the area of systems

### **M.S., Computer Science** (Chicago, IL), 2008 – 2009

Illinois Institute of Technology (join-degree with UPM)

- ✓ *GPA: 3.59/4.0*

### **M.S., Computer Engineering** (Madrid, Spain), 2004 – 2009

Universidad Politécnica de Madrid

- ✓ *GPA: 7.59/10.0*
- ✓ *Awards*
  - ◆ Salutatorian (second of 380 students)
- ✓ *Scholarships*
  - ◆ Scholarship from Vodafone to earn a master's degree in the United States or Canada, 2008
  - ◆ High achievement from the autonomous community of Madrid (Spain), 2005