

Jonathan Antognini C.

Computer Science Engineer Student

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Personal Information

Name	Jonathan Andrés Antognini Cavieres	Run	17.001.728-5
Birthday	14 July, 1988	Nationality	Chilean
Civilian State	Single		

Education

2007 to present	Computer Science Engineering , <i>Universidad Técnica Federico Santa María, Valparaíso, in progress.</i> Undergraduate thesis student
2003-2006	High School , <i>Liceo Neandro Schilling, San Fernando, Libertador Bernardo O'higgins.</i>

Experience

Professional

2013 January to present	Development of an Astro-Informatic Platform for Management and Intelligent Analysis of Large-scale Data , <i>Development Coordinator & Developer of the Chilean Virtual Observatory, UTFSM.</i>
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Internships

2012 August-October	Center for Technological Innovation in High Performance Computing , <i>The objective was to study and create algorithm in CUDA for problems related to High Frequency Trading., CTI-HPC.</i>
2011 January-February	Atacama Large Milimeter-submillimeter Array , <i>The objective was to develop and create documentation of techniques and procedures to test automatically graphic unit interfaces in Java., ALMA observatory - Operation Support Facilities.</i>

Vocational

2012 March to present	LIRAE Group representative , <i>In charge of the national and international representation, coordinating the activities, work and projects inside the group., Laboratory of Interdisciplinary Research on Astro-Engineering, UTFSM.</i>
2012 March to present	CSRG Coordinator , <i>Group representative at administrative level, coordinating the activities inside of the University., Computer Systems Research Group, UTFSM.</i>
2011 October to 2013 December	Presential Assistantship , <i>Scientific Computation I and II, Computer Science Department, UTFSM.</i>
2011 March to 2011 December	ALMA-UTFSM Research Leader , <i>In charge of artificial intelligence project for Astronomy., Computer Systems Research Group, UTFSM.</i>

- 2009 October to 2011 December **ALMA-UTFSM Research Assistantship**, Member of Artificial Intelligence in Astronomy team, I worked in: dynamics scheduling problems for the array scheduling problem; image classifier for Very Large Telescope images. Since 2011 I worked porting the Alma Commons Software to windows., Computer Systems Research Group, UTFSM.
- 2008 March to 2011 October **Presential Assistantship**, Mathematic of the Common Cycle, Mathematic Department, UTFSM.
- 2008 March to 2010 July **Presential Assistantship**, Programming, Computer Science Department, UTFSM.

Computer Systems skills

- **Languages:** C, C++, CUDA, C#, Python, Ruby, Java, Mathematica, Matlab.
- **Databases:** SQL, PostgreSQL, MySQL.
- **Tools:** SWIG, Eclipse, Netbeans, Vim, Bash.
- **Operative Systems:** Redhat, Debian, Windows XP, 7, OS X
- **Web:** PHP, CSS, HTML, Flask, Rails, JavaScript.
- **General:** Latex, Microsoft Office, Git, Svn, Trac, Wiki.

Events attendance

- 2013 **Third CMM Pucón Symposium 2013**, *Advanced Tools Applied to Frontier Astronomy, BioMedicine and Massive Data-driven Sciences*, Hotel Park Lake, Pucón.
<http://www.pucon2013.cmm.uchile.cl>
- 2013 **First La Serena School of Data Science**, *School for Data Science: Applied Tools for Astronomy*, AURA, La Serena.
http://aurao.ctio.noao.edu/winter_school
- 2010 **XVIII Feria de Software**, *Presentation of Asafis Mind project*, UTFSM, Santiago.
<http://kratos.feriadesoftware.cl>
- 2009 **EVIC**, *VI Escuela de Verano Latino-americana en Inteligencia Computacional, III Encuentro de Verano Latino-americana en Robótica*, Universidad de Chile, Santiago.
- 2009 **ACS Workshop**, *Attendance to the general meeting and final course (Basic)*, UTFSM, Valparaíso.

Publications

- 2013 **INFONOR 2013**, *Primeros pasos del Observatorio Virtual Chileno*, INFONOR, Coquimbo.

Languages

Spanish **Native**

Speaks, Reads, Writes, Technical and Colloquial

English **Medium**

Speaks, Reads, Writes

Interests and Hobbies

- Goal oriented, Proactivity, responsibility, educational vocation
- Quantitative methods and models, Algorithms
- Sports, Basketball, member of UTFSM basketball team

Honor and Awards

- Be a part of the, UTFSM *Honor List*, to the best academic performance, 2008, 2009, 2010, 2011, 2012
- First Place in Academic Performance, Liceo Neandro Schilling (high school), '06 generation