

DANIEL DÍAZ CASANUEVA

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<http://daniel-diaz.github.com>

- SKILLS
- **Programming languages**
 - * Expert: Haskell, HTML, CSS, L^AT_EX.
 - * Experienced: Prolog, C, SQL, Pascal, PHP, JavaScript.
 - **Development platforms and tools**
 - * Platforms: Windows, Linux and Mac OS X.
 - * Tools: Git, Vim, Microsoft Office, Adobe Photoshop, Corel Draw, GIMP.
 - **Languages:** Fluent English and Spanish.

- RELEASED PROJECTS
- **HaTeX:** Domain Specific Language (DSL) of L^AT_EX, written in Haskell. It includes many combinators and techniques to generate well-formed L^AT_EX code.
 - **DTC:** DTC (Data To Class) is a theoretical library which transforms systematically data declarations to class definitions.
 - **Clipboard:** Simple library for Windows users of Haskell that want to manage their system clipboard.

- RECENT PROJECTS
- **matrix:** A highly efficient library for matrix computations, written in Haskell.
 - **wavy:** Sound library, written in Haskell. It includes methods for audio encoding, decoding, synthesis and manipulation. Algorithmically built to be efficient.

- ACHIEVEMENTS
- Co-writer of the **Haskell Communities and Activities Report (HCAR)** from the nineteenth (November 2010) to the twenty-third edition (November 2012).
 - **Assistant editor** (November 2012 to now). Topology textbook written by Frédéric Mynard and Szymon Dolecki.
 - **Layout editor** (October 2012 to now). The Southern Praxis, Georgia Southern University newsletter.
 - **International Student Exchange Program (ISEP)** academic merit scholarship (May 2012).
 - **MMORPG scripter and system administrator** (2010-2011) in a Ragnarok Online private server.
 - **Filakada Leadership Convention**, Organizer (August 2010, January 2011, August 2011). Two days event where more than 2000 people enhanced their social and leadership skills.
 - **Research assistant** (November 2008 to June 2009). Computing statistical reports on aminoacid sequences using Haskell.

- EDUCATION
- **Bachelor in Mathematics**
Universidad de Málaga
Expected date of graduation: July, 2014.
 - **Algorithms: Design and Analysis**
Stanford University
Coursera online course (January 2013 to March 2013).

– **Bachelor of Science in Mathematics**

Georgia Southern University
ISEP exchange student 2012/2013.

WORK EXPERIENCE

– **Tutor in Mathematics** (September 2007 to now).

- * Assist high school students to improve their mathematical skills.
- * Prepare graduate students for the GRE test.
- * Teach Mathematics to college undergraduate students.

– **Audio mastering engineer and Music composer.** Freelance (August 2004 to now).

- * Mix and enhance music quality for the audience.
- * Compose instrumental tracks for different groups.
- * Perform as a DJ in concerts.
- * Editor in a Georgia Southern University radio show.

– **Graphic Designer.** Lumitel (October 2007 to July 2008).

- * Design illustrations using Corel Draw and Adobe Photoshop.
- * Communicate with clients through phone conversations and in person meetings to assure customer satisfaction.
- * Typesetting, proof reading and color adjustment of images.
- * Use of full color digital printer and copier.
- * Manual crafting of cartels.

REFERENCES

– **Dr. José Enrique Gallardo Ruiz**

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