

# DANIEL DÍAZ CASANUEVA

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

- SKILLS
- **Personal:** Self-learner, intelligent and creative. Passionate about everything I do.
  - **Programming languages**
    - \* Expert: Haskell, HTML, CSS,  $\text{\LaTeX}$ .
    - \* 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.

- 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  
*Not finished.*
  - **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
- **Tutorial writer.** FP Complete (June-July 2013).
    - \* Write interactive tutorials about web applications for professional programmers, with Haskell as the language of choice.
  - **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.

#### RELEASED PROJECTS

- **processing**: Interactive web graphic applications with *processing.js* as backend. Everything from a safe and typed interface, written in Haskell.
- **HaTeX**: Domain Specific Language (DSL) of  $\text{\LaTeX}$ , written in Haskell. It includes many combinators and techniques to generate well-formed  $\text{\LaTeX}$  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

- **wavy**: Sound library, written in Haskell. It includes methods for audio encoding, decoding, synthesis and manipulation. Programmed with efficiency in mind, it is able to manipulate big files in constant time.
- **haskintex**: A program to evaluate Haskell code within  $\text{\LaTeX}$  and possibly other languages.