

## Javier Arriero

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### CONTACT INFORMATION

28942 Fuenlabrada,  
Madrid

*Mobile: +44 7905348594*  
*Mobile: +34 655156714*  
*E-mail: javierarrieropais@outlook.com*

### EDUCATION

**Universidad Carlos III de Madrid**

**M.Sc., Mathematics & Statistics** (graduated June 2010)

**B.Sc., Statistics** (graduated September 2006)

- Erasmus student at the Dortmund University (2006)

**B.Eng. in Computer Engineering** (graduated December 2004)

### HONORS AND AWARDS

Postgraduate Scholarship, 2008-2012  
Best student in Statistics award year 2006

### PROFESSIONAL EXPERIENCE **See next page for technologies used**

**Software Engineer**  
**Essensys**

**February, 2016 - June, 2016**  
London, United Kingdom

Java Developer working on Essensys's two layered architecture based on a PHP/Javascript front-end server and, more than 90% of the time, a Java-based back-end server based on Spring Framework and Hibernate. Elasticsearch was also involved to fetch time-series data and to provide general system contact agenda realtime search. I fixed a number of issues which dealt from SQL querying bugs to Elasticsearch debugging and new term and index creation.

**Software Engineer**  
**Erudine Financial Control**

**December, 2013 - February, 2016**  
London, United Kingdom

Multi-role software developer working on a software platform aimed at regulatory modeling which consists of a Java legacy codebase with a Clojure persistence storage based on Datomic and an HTTP server which handled collaboration between several users, also implemented in Clojure. This REST server provided a web administration interface implemented in ClojureScript and using Datascript and Reagent. The Java codebase was subject to re-development, both to adapt it to the new persistence storage (and collaboration server) and then heavily refactored via Design Patterns to insulate the codebase from any particular storage implementation. While in this role, I also did technical interviews of candidates for the Core Engineering Team and technical assistance for other projects within the company.

**Teaching Assistant**  
**Department of Statistics, University Carlos III of Madrid**

**September, 2008 - September 2012**  
Getafe, Spain.

Teaching computer lab and theoretical exercises, making and correcting exams and homework assignment (find the list of courses here). Administration of the departmental front-end web server since 2009 and administration of the departmental Windows PC network.

**Software Engineer**  
**Critical Path BV**

**June, 2007 - May, 2008**  
Dublin, Ireland

Software forensics, examine and debugging, bug location, bug fixing, documentation and building test cases. Not only was ample low level computing skills required to spot memory leaks or pointer overwriting in program memory dumps, but also business logic problems needed to be tracked and solved.

## Internships

- IBM (Madrid, Spain): Business operations database support for IBM managers, sellers and others. Tools: Lotus Notes, Windows.
- Computer and networking service, Universidad Carlos III de Madrid (Madrid). Email administrator. Postfix, Linux, Solaris.

## COMPUTER SKILLS

The electronic PDF file contains hyperlinks leading to:

<http://analyticbastard.github.io/blog/pages-output/experience>

- Computer Languages:
  - **Clojure, ClojureScript** (with Figwheel/Reagent/Reframe, etc). See link
  - **Java**. See link
  - **C** See link.
  - Scientific: **Python**. As a data analysis platform, see link, **Matlab** and **R**, see link.
- Libraries, tools and operating systems:
  - **Mobile**: ReactNative via Re-Natal (Clojurescript technologies on mobile development!). Basic Android SDK and Phonegap/Apache Cordova. See link
  - **Datomic, MySQL**. See link.
  - **IntelliJ IDEA**. See link.
  - **Git**, Maven, and Leiningen. See link.
  - **Scikits-Learn, Pandas, NumPy, SciPy, Vowpal Wabbit**, and more. See link.
  - **TeamCity**, Jenkins, other SCM, Bitbucket, Jira.
  - **Linux** (using mainly Ubuntu), **Windows** and Mac OS X.
  - **LaTeX**, MS Office, Macros with Excel VBA.

## LANGUAGE SKILLS

**Spanish** (Native Speaker)

**English** (Fluent) - Certificates of English earned:

2005: Test of English as a Foreign Language (TOEFL) CBT. Grade: 283/300

**German** (Intermediate) - Certificates of German earned:

2009: IIK-Düsseldorf Sommerkurs Berlin B1. Zeugnis: 1.7 (gut)

2006: Dortmund Universität, Grundstufe A1

## SOME OPENSOURCE CONTRIBUTIONS

- **Junk Food Friday**. Real-time, collaborative food menu organizing and ordering web app <https://github.com/analyticbastard/coffee>.
- **Hierarchical-storage**. A JVM library that to easily store string values under several levels of keys in a tree fashion. <https://github.com/analyticbastard/hierarchical-storage>.
- **ptf**. A Clojure library that allows to easily parallelize evaluations at any point in a Clojure thread flow. <https://github.com/analyticbastard/pth>.

## PUBLICATIONS

- *A new distance for probability measures based on the estimation of level sets* with Alberto Munoz, Gabriel Martos and Javier Gonzalez. ICANN 2012.
- *Kernel Latent Semantic Analysis using Term Fusion Kernels* (with Alberto Munoz, Javier Gonzalez), in Kernel Support Vector Machines: Data Analysis, Machine Learning and Applications. Nova Publishers, Long Island. 2011. Editors: Brandon H. Boyle.

## SOCIAL

- Kaggle: <https://www.kaggle.com/users/57992/analytic-bastard>
- Github: <https://github.com/analyticbastard>
- Blog: <http://analyticbastard.github.io>