

## **Eduardo Fernandez del Peloso**

Nationalities: Brazilian and French

Phone: +49 1522 2908720

E-mail: [eduardodelpeloso@gmail.com](mailto:eduardodelpeloso@gmail.com)

Skype name: eduardodelpeloso

LinkedIn: <https://www.linkedin.com/in/eduardodelpeloso/>

Homepage: <http://www.delpeloso.com.br>

## **PROFESSIONAL EXPERIENCE**

### **Programmer Analyst**

- *Universität Heidelberg, Heidelberg, Germany*

June 2018 – Today

Tasks: Development and maintenance of a data collection and analysis system for the Gaia space telescope, together with a team of around 430 scientists and software engineers from 24 countries in Europe. System implemented in Java with touches of Groovy.

- *Instituto de Ciências Náuticas, Rio de Janeiro, RJ, Brazil*

May 2013 – May 2018

November 2010 – October 2011

Tasks: Development of simulators in support of naval training. Applications include radar, electronic chart system (ECS) and bridge simulators. Systems were implemented mainly in C#, but also in C and C++.

- *Laboratório Interinstitucional de e-Astronomia, Rio de Janeiro, RJ, Brazil*

November 2011 – April 2013

Tasks: Development of software for the reduction, visualization and analysis of astronomical data, in Python.

- *Marine Production Systems do Brasil Ltda., Rio de Janeiro, RJ, Brazil*

April 2008 – October 2010

- *Symmetry Ltda., Rio de Janeiro, RJ, Brazil*

October 2006 – March 2008

Tasks: Development of control and information systems for service and cargo transportation vessels, implemented in C, C++ and Dynamic C (for real-time control).

### **Astronomy postdoctoral researcher**

- *Observatório Nacional, Rio de Janeiro, RJ, Brazil*

October 2004 – September 2006

- *Universidade Federal do Rio de Janeiro, Rio de Janeiro, RJ, Brazil*

October 2003 – September 2004

Tasks: Stellar and Galactic astrophysics research.

### **Reactor physicist**

- *Eletrobrás Termonuclear S.A., Angra dos Reis, RJ, Brazil*

October 1997 – February 2001

Tasks: Technical support to the operation of nuclear power plant reactors.

## **EDUCATION**

### **Data Science Specialization**

*Johns Hopkins University, Baltimore, MD, USA (online, through Coursera)*

September 2016

### **Statistical Learning Course**

*Stanford University, Stanford, CA, USA (online, through Stanford Online)*

April 2016

### **Specialization in Mechatronics Engineering**

*, Rio de Janeiro, RJ, Brazil*

November 2010

## PhD in Astronomy

### MSc in Astrophysics

*Observatório Nacional, Rio de Janeiro, RJ, Brazil*

September 2003 and May 1996, respectively

### BSc in Physics

*Pontifícia Universidade Católica do Rio de Janeiro, Rio de Janeiro, RJ, Brazil*

August 1994

## KNOWLEDGE IN SOFTWARE DEVELOPMENT

- C#, C++, C, Dynamic C (for real-time control), Python, Java and R.

## KNOWLEDGE IN DATA SCIENCE

Basic to intermediate knowledge of diverse algorithms and techniques, acquired taking Johns Hopkins' Data Science Specialization (online through Coursera) and Stanford's Statistical Learning Course (online through Stanford Online).

## SOFTWARE DEVELOPMENT AND DATA SCIENCE SHOWCASE

- Participation in the large-scale Gaia space telescope project, developing and maintaining data analysis software in Java and Groovy.

- Pipeline to analyse stellar spectra obtained by the SDSS-III MARVELS Survey, composed of three modules programmed in C.

- Almost single-handed development of an Electronic Chart Display and Information System Simulator (ECDIS Simulator) implemented in C# (I alone coded ca. 85% of the system, did all documentation and accompanied all certification inspections). The simulator is the first one in Brazil to be certified by an international certification body and classification society. It was certified as class S Maritime Simulator by DNV GL (Det Norske Veritas / Germanischer Lloyd) in 2017.

- Word prediction application as the capstone of the online data science specialization offered by Johns Hopkins University through Coursera, implemented in R.

## SUCCESSFUL DATA SCIENCE BOOTCAMP APPLICATIONS

### Data Science Retreat

Selected to attend batch 11. Location and date: Berlin, Germany, June 2017. Duration: 3 months.

Cohort size: 5 to 10 people.

### BaseCamp

Selected to attend batch 2. Location and date: Vienna, Austria, June 2017. Duration: 2 months.

Cohort size: 8 to 10 people.

## SCIENTIFIC PUBLICATIONS

8 papers published in international, peer-reviewed astronomy journals, being 5 as PI.

## FOREIGN LANGUAGES

### ◆ Knowledge (levels A1 = beginner, A2, B1, B2, C1 and C2 = fluent)

	Writing	Reading	Speaking	Listening
English	C1	C2	C1	C1
French	B1	B2	B1	B1
Spanish	B1	B2	B1	B2
German	A1	A1	A1	A1

### ◆ Diplomas

Certificate of Proficiency in English

*University of Michigan, Ann Arbor, MI, USA*

November 1986