

RICARDO CRUZ *August 15, 1985*

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Education

- Sept 2016-present** **PhD student in Computer Science:** MAP-i University of Minho, Aveiro, Porto
- 2015** **MSc in Applied Mathematics:** FCUP, University of Porto (Grade: 18)
- 2012** **BSc in Computer Science:** FCUP, University of Porto (Grade: 16)

Publications

- 2017** Cruz et al. Ordinal Class Imbalance with Ranking. Iberian Conference on Pattern Recognition and Image Analysis. LNCS Springer. [Oral]
- 2017** Cruz et al. Combining Ranking with Traditional Methods for Ordinal Class Imbalance. 14th International Work-Conference on Artificial Neural Networks. LNCS Springer. [Oral]
- 2017** Cruz et al. Constraining Type II Error: Building Intentionally Biased Classifiers. 14th International Work-Conference on Artificial Neural Networks. LNCS Springer. [Oral]
- 2017** Ortiz et al. Fine-to-Coarse Ranking in Ordinal and Imbalanced Domains: An Application to Liver Transplantation. 14th International Work-Conference on Artificial Neural Networks. LNCS Springer. [Oral]
- 2016** Cruz et al. Tackling Class Imbalance with Ranking. IEEE International Joint Conference on Neural Networks (IJCNN). [Oral]

Workshops and Public Lectures

- June 6, 2017** **Porto Python Meetup:** Python for Scientific Computing (with João Machado from Fraunhofer Portugal) [<https://www.meetup.com/pt-BR/OPOPyMeetup/events/239794462/?eventId=239794462>]
- Apr, 2017** **INESC TEC Open Day CTM:** Python for Machine Learning [<http://bip.inesctec.pt/181/noticia-ev05.html>]
- Oct, 2016** **FEUP Code Week:** Python for Machine Learning

Experience

- Nov 2015-Dec 2016** **INESC TEC:** research grant on machine learning in a medical context (under Prof. Jaime S. Cardoso)
- Jan-Apr 2015** **Flykt:** consulting in text mining [<https://flykt.com>]
- Sept-Dec 2014** **CMUP:** research grant on HIV immune response modelling
- 2008** **Google Summer of Code:** redesign of OpenOffice.org layout engine (under Novell)
- 2007** **Google Summer of Code:** port of YaST from Qt to GTK+ (under Novell)

Free Software Projects

- 2015** Java Android games (Java/Android SDK) [<http://tinyurl.com/q73ptbs>]

- 2009** Simple RSS reader (C++ and GTK) [<http://www.omgubuntu.co.uk/2009/06/eatfeed-simple-desktop-rss-reader>]
- 2008** **GTK4Qt:** Qt style mimetizing GTK+ (C++) [<http://gtk4qt.sourceforge.net/>]
- 2007** **Apoo v2:** Virtual machine for tutoring Assembly (developed in Python and GTK+) under Rogério Reis e Nelma Moreira (FCUP) [<http://www.ncc.up.pt/Apoo/>]
- 2005** **SuperTux, co-author:** Very popular game shipped by Magalhães computers (C++) [<https://supertux.github.io/>]

Skills

Technical skills	Programming (C, C++, Java desktop and Android, Python, R, Matlab, SQL), Applied Mathematics (data mining, statistics, modeling, optimization, agent-based systems)
Soft skills	2013 fundraising coordinator for EBEC competition (FEUP); 2014 head of the organization committee for the International Conference DGS III http://www.fc.up.pt/dgsiii/
Courses	2014 Coursera/Stanford Machine Learning; 2013 INESC agent-based modeling with NetLogo; 2013 BEST Novi Sad on cryptography
Languages	Portuguese (native), English (B2)

I am someone who is passionate about science and an avid reader. I enjoy everything from biology to physics to economics, and the computational methods which help us make sense of the world. I love to teach and have a vast experience as a private tutor as well. For more information please consult my webpage: <https://rpmcruz.github.io/>.