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# Diogo Ferreira Pacheco

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321-541-0283

## EDUCATION

- 08/13 – 12/17 **Doctor of Philosophy, Computer Science, GPA 3.88**  
(Expected) Florida Institute of Technology, Melbourne, FL - USA.  
Area: Data Science / Network Science  
Thesis: "On the Relation between Social Activities and Socio-Economic Structures"
- 08/06 – 07/08 **Master of Science, Computer Engineering, GPA 3.5**  
Polytechnic School of Pernambuco, Recife – PE, Brazil.  
Area: Computational Intelligence and Multi-Objective Optimization  
Dissertation: "An Evolutionary Multi-Objective Approach to Decision Support in Sugarcane Harvest"
- 08/01 – 07/06 **Bachelor of Science, Computer Engineering, CPI 8.38**  
Polytechnic School of Pernambuco, Recife – PE, Brazil.  
Dissertation: "Decision Support in Intelligent Systems for Agricultural Crops"

## CONTINUING EDUCATION

- 09/14 – 11/14 **Social Psychology**  
Wesleyan University (via Coursera.org)

## AWARDS

- 2017 **Outstanding Student of the Year**  
Florida Institute of Technology, Melbourne, FL - USA.

## SKILLS

**Programming:** Python, C#, Java, SQL, NoSQL, R, Matlab.

**Softwares:** Gephi, Canopy, MongoDB, MySQL, SQL Server, Visual Studio, Eclipse, R Studio, MapWindow GIS, SVN, Latex.

**Languages:** English, Portuguese.

## WORK EXPERIENCE

- 2016 – 2017 **Civil Engineering-Construction Mgmt Department at FIT**  
Graduate research assistant of the Florida Public Hurricane Loss Model (FPHLM) project. I have to elicit requirements from interviews with the client, design and implement the system responsible for generating the weighted-vulnerability matrices.
- 2014 – 2014 **Civil Engineering-Construction Mgmt Department at FIT**  
During Summer, I worked as webmaster and implementing flow charts of the Florida Public Hurricane Loss Model (FPHLM).
- 2010 – 2013 **Radix Software and Engineering**  
I worked in several software development projects, mainly, in the Oil & Gas, Entertainment and Steel industries. I actuated in many different phases of the development process as project coordinator, business analyst, and test leader.
- 2008 – 2010 **Chemtech – A Siemens Business**  
I worked in several software development projects, mainly, in steel industry and power sector, as business analyst, software developer and test leader.
- 2004 – 2007 **CESAR – Center of Studies and Advanced Systems from Recife**  
I began my software development career focusing on coding, requirements, and tests. I worked on web-based projects and mobile development.

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# Diogo Ferreira Pacheco

## 2001 – 2001 **JAMBO –Entrance Preparation Courses**

Tutoring math and physics for college entrance preparation courses.

### **PRESENTATIONS**

- 05/2017 **Using Social Media to Assess Neighborhood Social Disorganization: A Case Study in the United Kingdom.**  
In: 30th Florida Artificial Intelligence Research Society Conference (FLAIRS), Marco Island/USA.
- 05/2017 **Language as a Measure of Welfare.**  
In: 30th Florida Artificial Intelligence Research Society Conference (FLAIRS), Marco Island/USA.
- 07/2015 **Football Conversations: What Twitter Reveals about the 2014 World Cup.**  
In: 30th Florida Artificial Intelligence Research Society Conference (FLAIRS), Marco Island/USA.
- 01/2015 **Dynamics of Fans Borders During 2014 FIFA World Cup.**  
In: NetSciX 2015: International School and Conference on Network Science, *Rio de Janeiro/Brazil*.
- 05/2014 **Using Interactions in the Quantification of Media Bias.**  
In: 2014 ASE BIGDATA/SOCIALCOM/CYBERSECURITY Conference, Stanford University, *Stanford/USA*.
- 09/2008 **How Preferences Affect Productivity in the Sugarcane Harvest Problem a Comparative Study of a Two-Steps MOEA.**  
In: 8th International Conference on Hybrid Intelligent Systems (HIS 2008), *Barcelona/Spain*.
- 05/2008 **Including Multi-Objective Abilities in the Hybrid Intelligent Suite for Decision Support.**  
In: 2008 World Congress In Computational Intelligence (IJCNN - International Joint Conference On Neural Networks), *Hong Kong/China*.

### **PUBLICATIONS**

- 2017 1. **PACHECO, Diogo F.; SAHA, Priya; LIMA-NETO, F. B.; MENEZES, R. . Sensing Language Relationships from Social Media.** In: 2017 IEEE SmartWorld, Ubiquitous Intelligence and Computing, Advanced and Trusted Computed, Scalable Computing and Communications, Cloud and Big Data Computing, Internet of People and Smart City, August 4-8, 2017 (to appear).
2. **PACHECO, Diogo F.; PINHEIRO, Diego; CADEIRAS, Martin; MENEZES, Ronaldo. Characterizing Organ Donation Awareness from Social Media.** In: Data Engineering Workshops (ICDEW), 2017 IEEE 33rd International Conference on, San Diego, California, USA, April 19-22, 2017.
3. **PACHECO, Diogo F.; OLIVEIRA, Marcos; MENEZES, Ronaldo. Using Social Media to Assess Neighborhood Social Disorganization: A Case Study in the United Kingdom.** In: the 30th Florida Artificial Intelligence Research Society Conference, Marco Island, Florida, USA, May 22-24, 2017.
4. **SAHA, Priya; PACHECO, Diogo F.; MENEZES, Ronaldo. Language as a Measure of Welfare.** In: the 30th Florida Artificial Intelligence Research Society Conference, Marco Island, Florida, USA, May 22-24, 2017.
- 2016 5. **PACHECO, Diogo F.; PINHEIRO, Diego; LIMA NETO, F. B.; RIBEIRO, Eraldo; MENEZES, R. . Characterization of Football Supporters from Twitter Conversations.** In: 2016

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# Diogo Ferreira Pacheco

- IEEE/WIC/ACM International Conference on Web Intelligence (WI' 16), October 13-16, 2016.
- 2015 6. *PACHECO, Diogo F.*; LIMA NETO, F. B.; MOYANO, L. G.; MENEZES, R. . **Football Conversations: What Twitter Reveals about the 2014 World Cup**. In: IV Brazilian Workshop on Social Network Analysis and Mining (BraSNAM 2015), Recife - Brazil, July 21-23, 2015.
- 2014 7. *PACHECO, Diogo*; ROSE, D; LIMA NETO, F. B.; MENEZES, R.. **Using Interactions in the Quantification of Media Bias**. In: 2014 ASE BIGDATA / SOCIALCOM / CYBERSECURITY Conference, Stanford University, May 27-31, 2014.
- 2008 8. *PACHECO, Diogo F.*; OLIVEIRA, F. R. S. ; LIMA NETO, F. B. . **Including Multi-Objective Abilities in the Hybrid Intelligent Suite for Decision Support**. In: 2008 World Congress In Computational Intelligence (IJCNN - International Joint Conference On Neural Networks), 2008, Hong Kong.
9. *PACHECO, Diogo F.*; LIMA NETO, F. B. . **A Fair Comparison of Representations, Operators and Algorithms for the Sugarcane Harvest Problem**. In: IEEE International Conference on Systems, Man, and Cybernetics (SMC2008), 2008, Singapore.
10. *PACHECO, Diogo F.*; LUCAS, T. D. P. ; LIMA NETO, F. B. . **How Preferences Affect Productivity in the Sugarcane Harvest Problem a Comparative Study of a Two-Steps MOEA**. In: 8th International Conference on Hybrid Intelligent Systems (HIS 2008), 2008, Barcelona.
- 2007 11. *PACHECO, Diogo F.*; LUCAS, T. D. P. ; LIMA NETO, F. B. . **How to Obtain Fair Managerial Decisions in Sugar Cane Harvest Using NSGA-II**. In: International Conference on Hybrid Intelligent Systems (HIS'07), 2007, Kaiserslautern, Germany.
12. OLIVEIRA, F. R. S.; *PACHECO, Diogo F.*; LIMA NETO, F. B. . **Hybrid Intelligent Suite For Decision Support in Sugarcane**. In: 6.Congresso Brasileiro de Agro-Informática (SBIAgro), 2007, São Pedro.
13. LINS, A. J. C. C. ; CALDAS, B. J. B. ; BASTOS FILHO, C. J. A. ; CARVALHO, D. F. ; *PACHECO, Diogo F.*; LIMA NETO, F. B. . **A Novel Approach for Wavelength Assignment in Optical Links Based On Modified Genetic Algorithms**. In: I Simpósio Brasileiro de Inteligência Computacional (SBIC), 2007, Florianópolis.
14. LIMA NETO, F. B. ; OLIVEIRA, F. R. S. ; *PACHECO, Diogo F.* . **Hybrid Intelligent Suite for Decision Support**. In: Seventh International Conference on Intelligent Systems Design and Applications (ISDA), 2007, Rio de Janeiro, Brazil.
- 2006 15. OLIVEIRA, F. R. S. ; *PACHECO, Diogo F.*; LEONEL, A. ; LIMA NETO, F. B. . **Intelligent Support Decision in Sugar Cane Harvest**. In: IV World Congress On Computers In Agriculture (WCCA2006), 2006, Orlando.
- 2005 16. *PACHECO, Diogo F.* ; REGUERIA, F. S. ; LIMA NETO, F. B. . **Utilização de Redes Neurais Artificiais em Colheitas de Cana-de-açúcar para Predição de TCC, TCH e Fibra**. ALCOOLbrás, São Paulo, p. 60 - 63, 01 mar. 2005. (In portuguese)

## RESEARCH

Member of **BioComplex Lab** at Florida Institute of Technology, USA.

Invited researcher of **Computational Intelligence Research Group** at University of Pernambuco, Brazil.