

# Curriculum Vitæ

## Johnnatan Messias Peixoto Afonso

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**Education** **Master's Degree in Computer Science** (2015 – 2017) at  
Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Brazil  
M.Sc. in Computer Science, March 2015 – May 2017.  
Advisor: Dr. Fabrício Benevenuto.  
Interests: Data Analysis, Mobile Systems, Sentiment Analysis, Software Engineering, Social Networks.

**Sandwich Bachelor's Degree in Computer Science** (2009 – 2014)  
Universidade Federal de Ouro Preto (UFOP), Ouro Preto, Brazil. GPA (0 – 10): 8.0  
Eötvös Loránd University (ELTE), (2013/2 – 2014/2), Budapest, Hungary. GPA (0 – 5): 4.0  
Thesis: Framework for Unmanned Air Vehicle (UAV) Navigation System. (in Portuguese)  
Advisor: Dr. Ricardo Rabelo.

**Intensive English Course**, July – September 2013  
Eötvös Loránd University (ELTE), Budapest, Hungary

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**Experience** **Software Engineer at Kunumi**, Belo Horizonte, Brazil - June – present 2017.

**Research Internship at Max Planck Institute for Software Systems (MPI-SWS)**, Saarbrücken, Germany.  
1st: February – May 2016.  
2nd: February – May 2017.  
Advisor: Dr. Krishna P. Gummadi.

**Research Theory of Social Computing and Data Analysis at Universidade Federal de Minas Gerais (UFMG)**, Belo Horizonte, Brazil - March 2015 – May 2017.

**Internship at Belux Csoport Kft**, Budapest, Hungary. 2014.

**International Experience:**

I lived abroad twice (Germany [6 months] and Hungary [14 months]).  
I have American Visa (B1 - Business / B2 - Tourism) with expiration date in July 2026.  
I have been to 23 countries.

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**Teaching Experience** **Universidade Federal de Minas Gerais (UFMG)**, Belo Horizonte, MG, Brazil. 2016.  
Teaching Assistant for Analysis and Algorithm Design, August 2016 – January 2017.

**Programa Nacional de Acesso ao Ensino Técnico e Emprego (Pronatec)**, Mariana, MG, Brazil. 2013.  
Analysis and Algorithm Design for High School students at Escola Estadual Dom Silvério.  
Operating System for High School students at Escola Estadual Dom Silvério.  
Introduction to Hardware for High School students at Escola Estadual Dom Silvério.

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**Skills** **Programming Languages:**

C, C++, Java, Python, R.

**Mobile Development:**

Android SDK

**DBMS:**

MySQL, Oracle, PostgreSQL.

**Web Development:**

EJB, HTML, JavaEE, JPA, jQuery, Javascript, JSON, PHP, XML.

**Other Tools:**

Git, LibSVM, Matlab, Matplotlib, NLTK, Node.js, Numpy, Pandas, QT, Scikit-Learn, SVN.

**Boards:**

Arduino, Raspberry PI.

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**Awards and****Honors**

- Granted with a scholarship for the Brazilian Scientific Exchange Program in Budapest, Hungary, spending fourteen months studying at an European University.
- Motion of applauses for developing the SmartHome project, during the exchange program Science Without Borders in Budapest - Hungary - Câmara de Mariana, MG, Brazil - (2014).
- Honorable Mention Article Sigam-me os Bons! Transformando robôs em pessoas influentes no Twitter, Brazilian Workshop on Social Network Analysis and Mining (BraSNAM'12)
- 3rd place in the XXXII Concurso de Trabalhos de Iniciação Científica (CTIC2013), XXXIII Congresso da Sociedade Brasileira de Computação (CSBC2013).
- First (1st) place in the DECOM Competition of Minimum Paths at Universidade Federal de Ouro Preto, Prof. Dr. Haroldo Gambini Santos.
- Best paper nominee: CTIC'13, BraSNAM'12.

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**Developed****Applications**

- Who Makes Twitter Trends (<http://twitter-app.mpi-sws.org/who-makes-trends/>): Demographic of Trend Promoters is the distribution (or combination) of demographic groups (such as middle-aged white men, young asian women, adolescent black men) in the crowd promoting (or posting about) a topic before the topic becomes Trending on Twitter. Here, we are only considering US based Twitter users whose tweets on the trends appear in the 1% random sample distributed by Twitter.
- Search Political Leaning of Twitter Users (<http://twitter-app.mpi-sws.org/search-political-bias-of-users/>): You can login with your Twitter credentials, to see the political leaning (between democratic and republican) inferred for you. You can also search for other Twitter users and check their political leanings.
- Secondary Digital Footprint (<http://twitter-app.mpi-sws.org/footprint/>): Twitter is social, people converse with you by mentioning your username in their tweets (e.g., while replying to your tweet or giving a shout-out to you ). These conversations are your secondary digital footprint, even if you delete your account or delete selected tweets, this secondary footprint is not deleted automatically and leaks information about you. Check what your secondary digital footprint reveals about you and your content.

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**Press Coverage**

Some of my scientific efforts have been covered by news media and specialized blogs, including The New York Times, The Huffington Post, and Folha de São Paulo. Links to these news articles and my scientific publications can be found at <http://johnnatan.me>.

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**Reference****Dr. Fabrício Benevenuto**

Universidade Federal de Minas Gerais (UFMG), Brazil  
email: [fabricao@dcc.ufmg.br](mailto:fabricao@dcc.ufmg.br)  
Personal Website: <http://www.dcc.ufmg.br/~fabricio/>

**Dr. Krishna P. Gummadi**

Max Planck Institute for Software Systems (MPI-SWS), Germany  
email: [gummadi@mpi-sws.org](mailto:gummadi@mpi-sws.org)  
Personal Website: <https://www.mpi-sws.org/~gummadi/>

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**Selected  
Publications**

**Most important publications** (Google Scholar: <http://scholar.johnnatan.me>)

White, Man, and Highly Followed: Gender and Race Inequalities in Twitter.

Johnnatan Messias, Pantelis Vikatos, and Fabrício Benevenuto.

In Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence (WI'17). Leipzig, Germany. August 2017 ([to appear](#))

An Evaluation of Sentiment Analysis for Mobile Devices.

Johnnatan Messias, João P. Diniz, Elias Soares, Miller Ferreira, Matheus Araújo, Lucas Bastos, Manoel Miranda, and Fabrício Benevenuto.

In Springer Nature Social Network Analysis and Mining. Volume 7, Issue 1, 2017. <http://rdcu.be/rZtC>

Longitudinal Privacy Management in Social Media: The Need for Better Controls.

Mainack Mondal, Johnnatan Messias, Saptarshi Ghosh, Krishna P. Gummadi, and Aniket Kate.

IEEE Internet Computing (Special Issue on Usable Privacy & Security). Volume 21, Issue 3, May-June, 2017. [http://johnnatan.me/pdf/mondal\\_ic17.pdf](http://johnnatan.me/pdf/mondal_ic17.pdf)

Demographics of News Sharing in the U.S. Twittersphere.

Julio C. S. Reis, Haewoon Kwak, Jisun An, Johnnatan Messias, and Fabrício Benevenuto.

In Proceedings of 28th ACM Conference on Hypertext and Social Media (HT'17). Prague, Czech Republic. July 2017. [http://johnnatan.me/pdf/reis\\_ht17\\_news-sharing.pdf](http://johnnatan.me/pdf/reis_ht17_news-sharing.pdf) ([to appear](#))

Linguistic Diversities of Demographic Groups in Twitter.

Pantelis Vikatos, Johnnatan Messias, Manoel Miranda, and Fabrício Benevenuto.

In Proceedings of 28th ACM Conference on Hypertext and Social Media (HT'17). Prague, Czech Republic. July 2017. [http://johnnatan.me/pdf/vikatos\\_ht17\\_linguistic-diversity.pdf](http://johnnatan.me/pdf/vikatos_ht17_linguistic-diversity.pdf) ([to appear](#))

Who Makes Trends? Understanding Demographic Biases in Crowdsourced Recommendations.

Abhijnan Chakraborty, Johnnatan Messias, Fabrício Benevenuto, Saptarshi Ghosh, Niloy Ganguly, and Krishna P. Gummadi.

In Proceedings of the Int'l AAAI Conference on Web and Social (ICWSM'17). Montreal, Canada. May 2017. [http://johnnatan.me/pdf/chakraborty\\_icwsm17\\_who\\_makes\\_trends.pdf](http://johnnatan.me/pdf/chakraborty_icwsm17_who_makes_trends.pdf)

Quantifying Search Bias: Investigating Sources of Bias for Political Searches in Social Media.

Juhi Kulshrestha, Motahhare Eslami, Johnnatan Messias, Muhammad Bilal Zafar, Saptarshi Ghosh, Krishna P. Gummadi, and Karrie Karahalios.

In Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW'17). Portland, Oregon, USA, February 2017. [http://johnnatan.me/pdf/kulshrestha\\_cscw17\\_search\\_bias.pdf](http://johnnatan.me/pdf/kulshrestha_cscw17_search_bias.pdf)

From Migration Corridors to Clusters: The Value of Google+ Data for Migration Studies.

Johnnatan Messias, Fabrício Benevenuto, Ingmar Weber, and Emilio Zagheni.

In Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'16). San Francisco, USA. August 2016. [http://johnnatan.me/pdf/messias\\_asonam16\\_migration.pdf](http://johnnatan.me/pdf/messias_asonam16_migration.pdf)

Towards Sentiment Analysis for Mobile Devices

Johnnatan Messias, João P. Diniz, Elias Soares, Miller Ferreira, Matheus Araújo, Lucas Bastos, Manoel Miranda, and Fabrício Benevenuto.

In Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'16). San Francisco, USA. August 2016. [http://johnnatan.me/pdf/messias\\_asonam16\\_mobile.pdf](http://johnnatan.me/pdf/messias_asonam16_mobile.pdf)

Forgetting in Social Media: Understanding and Controlling Longitudinal Exposure of Socially Shared Data.

Mainack Mondal, Johnnatan Messias, Saptarshi Ghosh, Krishna P. Gummadi, and Aniket Kate.

In Proceedings of the 12th Symposium on Usable Privacy and Security (SOUPS'16), Denver, CO, USA, June 2016. [http://johnnatan.me/pdf/mainack\\_soups16.pdf](http://johnnatan.me/pdf/mainack_soups16.pdf)

You followed my bot! Transforming robots into influential users in Twitter.

Johnnatan Messias, Lucas Schmidt, Ricardo Rabelo, and Fabrício Benevenuto.

In First Monday. Volume 18, Issue 7, July, 2013. ([52 citations](#)).

<http://firstmonday.org/ojs/index.php/fm/article/view/4217/3700>

