

# Rafael Gonçalves de Lima

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## Address

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## ACADEMIC DEGREES

**Bachelor in Electrical Engineering,** 2010-2014  
Emphasis: Control Systems  
Universidade Federal da Bahia (UFBA), Salvador/BA - Brazil  
**with Exchange Studies** 2012-2013  
Dept. of Electrical Engineering, POSTECH, Pohang - Republic of Korea  
**M.S. in Computer Science and Engineering** 2015-2017  
School of Electrical and Computer Engineering, UNIST, Ulsan - Republic of Korea

## SELECTED WORK EXPERIENCE

**R&D Specialist** 06/2019-Present  
Samsung R&D Institute Brazil (SRBR), Campinas-SP, Brazil  

- Data collection, cleansing and analysis for software improvements;
- Elaboration of metadata files and technical reports;
- Implementation of state-of-the-art denoising techniques.

**Data Engineer (Support for Data Production)** 01/2019-05/2019  
Center for Integration of Data and Knowledge for Health (CIDACS), FIOCRUZ, Brazil  

- Analysis of large databases for research projects in Epidemiology and Public Health;
- Data Conversion, Standardization and Cleansing for Data Lake, Code Review;
- Elaboration of Technical Reports and Data Dictionaries, Seminar Attendance;

**Visiting Fellowship** 09/2018-12/2018  
Max Planck Institute for Software Systems (MPI-SWS), Germany  

- Conceptual development and experiments on Kullback-Leibler Control of Continuous-Time Markov Chains.

**Summer Internship** 07/2013-08/2013  
KR - Korean Register of Shipping, Survey Team, Busan - Republic of Korea  

- Completed a 7-week Summer Internship collaborating on the revision of regulating norms for construction and operation of ships and also visiting subcontractors.

**Winter Internship** 01/2013-02/2013  
Hyundai Rotem, *Outfitting Production Eng. Team*, Changwon - Republic of Korea  

- Completed a 5-week internship collaborating on projects of rolling stocks wirings, reviewing wiring lists and visiting subcontractors, besides elaborating and presenting a comprehensive guide of current brazilian railways' projects.

**PUBLICATIONS** *“Implementation of End-to-End Training of Deep Visuomotor Policies for Manipulation of a Robotic Arm of Baxter Research Robot”*

(S. KIM, S.-A KIM, R.LIMA, J.CHOI) 01/2019  
*Journal Paper (in Korean)*  
 Journal of Korea Robotics Society Vol.14 No.1 pp.40-49

**“Automatic Decomposition of Self-Triggering Kernels of Hawkes processes”**  
 (LIMA, R.; CHOI, J.) 11/2017  
*Conference Paper*  
 PACS 2017  
 (International Symposium for Perception, Action and Cognitive Systems - Seoul/Republic of Korea)

**“Improving Imprecise Compressive Sensing Models”**  
 (LEE, D.; LIMA, R.; CHOI, J.) 06/2016  
*Conference Paper*  
 UAI 2016 (Association for Uncertainty in Artificial Intelligence - New York/USA)

**“Self-adjustable Robustness Filter for Dead-time Processes”**  
 (LIMA, R.G.; SANTOS, T.L.M) 10/2015  
*Conference Paper (in Portuguese)*  
 SBAI 2015 (Brazilian Symposium on Intelligent Automation - Natal/RN - Brazil)

## EVENTS

**Conference** 07/2020  
**The 37th International Conference on Machine Learning (ICML 2020)**  
*Virtual Conference*

**Conference** 07/2020  
**The 33rd Annual Conference on Learning Theory (COLT 2020)**  
*Virtual Conference*

**Workshop** 08/2018  
**Dynamical Systems and Related Topics (ICM 2018 - Satellite Meeting)**  
 UFBA, Salvador - Brazil

**Conference** 11/2017  
**9th Asian Conference on Machine Learning (ACML 2017)**  
 Yonsei University, Seoul - Republic of Korea

**Symposium** 11/2017  
**2017 International Symposium on Perception, Action, and Cognitive Systems (PACS 2017)**  
 Seoul National University, Seoul - Republic of Korea

**Symposium** 06/2016  
**The First Korea-Japan Machine Learning Symposium**  
 Organized by Machine Learning Center (MLC), Seoul - Republic of Korea

**Conference** 05/2014  
**ISSNIP Biosignals and Biorobotics Conference: Biosignals and Robotics for Better and Safer Living (BRC)**  
 IEEE (Institute of Electrical and Electronics Engineers), Salvador/BA - Brazil

## COMPUTER SKILLS

Python (Tensorflow/Keras), C++, Matlab, LaTeX, Beamer, SQL, Scrum, Git

<b>IDIOMS</b>	Portuguese (native), English (fluent/8.0 IELTS Score), French (intermediate), Korean (basic), German (basic)
<b>HONORS AND AWARDS</b>	<p><i>"Science without Borders"</i> Exchange Student Scholarship (08/2012-08/2013)</p> <p>1st place, Admission Exams for Electrical Engineering Department (2010)</p> <p>Silver Medal, National Astronomy Olympics (2006)</p> <p>Silver Medal, State Chemistry Olympics (2006)</p>