

Rafael Gonçalves de Lima

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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

- Physiological data collection, cleansing and analysis for improvement of wearable devices software;
- 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	<p><i>“Implementation of End-to-End Training of Deep Visuomotor Policies for Manipulation of a Robotic Arm of Baxter Research Robot”</i> (S. KIM, S.-A KIM, R.LIMA, J.CHOI) 01/2019 <i>Journal Paper (in Korean)</i> Journal of Korea Robotics Society Vol.14 No.1 pp.40-49</p> <p><i>“Automatic Decomposition of Self-Triggering Kernels of Hawkes processes”</i> (LIMA, R.; CHOI, J.) 11/2017 <i>Conference Paper</i> PACS 2017 <i>(International Symposium for Perception, Action and Cognitive Systems - Seoul/Republic of Korea)</i></p> <p><i>“Improving Imprecise Compressive Sensing Models”</i> (LEE, D.; LIMA, R.; CHOI, J.) 06/2016 <i>Conference Paper</i> UAI 2016 (<i>Association for Uncertainty in Artificial Intelligence</i> - New York/USA)</p> <p><i>“Self-adjustable Robustness Filter for Dead-time Processes”</i> (LIMA, R.G.; SANTOS, T.L.M) 10/2015 <i>Conference Paper (in Portuguese)</i> SBAI 2015 (<i>Brazilian Symposium on Intelligent Automation</i> - Natal/RN - Brazil)</p>
	<p>Workshop 08/2018 Dynamical Systems and Related Topics (ICM 2018 - Satellite Meeting) UFBA, Salvador - Brazil</p> <p>Conference 11/2017 9th Asian Conference on Machine Learning (ACML 2017) Yonsei University, Seoul - Republic of Korea</p> <p>Symposium 11/2017 2017 International Symposium on Perception, Action, and Cognitive Systems (PACS 2017) Seoul National University, Seoul - Republic of Korea</p> <p>Symposium 06/2016 The First Korea-Japan Machine Learning Symposium Organized by Machine Learning Center (MLC), Seoul - Republic of Korea</p> <p>Conference 05/2014 ISSNIP Biosignals and Biorobotics Conference: Biosignals and Robotics for Better and Safer Living (BRC) IEEE (<i>Institute of Electrical and Electronics Engineers</i>), Salvador/BA - Brazil</p>
	<p>COMPUTER SKILLS Python (Tensorflow/Keras), C++, Matlab, LaTeX, Beamer, SQL, Scrum, Git</p>
	<p>IDIOMS Portuguese (native), English (fluent/8.0 IELTS Score), French (intermediate), Korean (basic), German (basic)</p>