Allyne Machado dos Santos

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Born on 12/03/1990

EDUCATION HISTORY

2019 – Current:

Ph.D. in Chemical Engineering
Norwegian University of Science and Technology (NTNU)
Trondheim - Norway

Temporary position.

Main tasks:
- Analysis of industrial data;
- Machine learning application;
- Process optimization and control;
- Modelling and simulation;
- Student supervision.

- Thesis: *"Modelling, Optimization and Control of Recirculating Aquaculture Systems"*. Advisors: Prof. Sigurd Skogestad, Assoc. Prof. Johannes Jäschke

2017 – 2019:

M.Sc. in Chemical Engineering
Federal University of Rio de Janeiro (UFRJ)
Rio de Janeiro, RJ - Brazil

Financial support from brazilian research institutions: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES) and Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro (FAPERJ).

- Master thesis: *"Gray-box Nonlinear System Identification using Polynomial NARMAX Models"*. Advisors: Prof. Argimiro R. Secchi and Prof. Maurício B. de Souza Jr.

2010 – 2016:

B.Sc. in Chemical Engineering
Federal University of Rio de Janeiro (UFRJ)
Rio de Janeiro, RJ - Brazil

- Final project: *"Heat integration of a Natural Gas Processing Unit"*. Advisors: Prof. Argimiro R. Secchi, Kese Pontes Freitas Alberton and Carlos Paiva

WORK EXPERIENCE

Set/2018 – Dez/2018

Exchange Program
Norwegian University of Science and Technology (NTNU), External Researcher
Trondheim - Norway

Internship with finantial support from the International Partnerships for Excellence Education, Research and Innovation consortium (INTPART) in collaboration with Subsea Production and Processing (SUBPRO).

- Project: *"System Identification and nonlinear model predictive control applied on gas lift with two wells system"*. Advisors: Prof. S. Skogestad and D. Krishnamoorthy.

Jul/2013 – Jun/2014	Internship
	Laboratory of Software Development, Intern
	Rio de Janeiro, RJ - Brazil

Intern with research scholarship from Fundação COPPETEC.

Main tasks:
- Identify the most important process variables for production optimization;
- Development of a routine to perform statistical monitoring calculations in Matlab;
- Analyze the process using univariate statistical process control (SPC).

Jul/2013 – Jun/2014	Exchange Program
	Universidade de Queensland, Exchange Student
	Brisbane, QD - Australia

Science without Borders Program.

Courses:

- Software Engineering I;
- Electrochemistry & Corrosion;
- Heat & Mass Transfer;
- Process Systems Analysis;
- Polymer Engineering;
- Food Process Engineering II.

SKILLS AND OBSERVATIONS

Language Skills

- Portuguese – Native
- English – Fluent
- Norwegian – Beginner

Computer Skills

- Microsoft Office, Latex and Git
- Programming: Matlab and Python

Courses: (Certificates)
- Python & MySQL - certified by Udemy
- Unix Shell; R (Rstudio); Git - certified by Software Carpentry

Communication

Good communication skills developed during tutoring. English fluency developed during English course, exchange programs and private tutoring in Australia. Norwegian basic skills developed during a Norwegian course and daily practice. Teamwork skills developed during graduation, exchange programs, student supervisions and collaboration with other projects during my Ph.D. research.

ADDITIONAL INFORMATION

Interests

I enjoy searching for all alternative ways of problem solving to make decisions or to make a case and present it to whom needs to make the decision. I am always interested on meeting new people and making friends. I love traveling, taking pictures, knowing the culture and mundane life of people from different countries. Besides that, I love watching movies and tv-series, and listening to music.