# André Evaristo
# dos Santos

Ph.D. student, M.Sc. in Computer Science, Industrial Engineer

Date of birth: February 8th, 1992
Citizenship: Brazilian
**dossantos@cs.uregina.ca**
**Office:  +1 (306) 585 6254**

## EDUCATION

**2016 PRESENT**

**University of Regina,** Canada — *Ph.D. of Science Student in Computer Science*
- Supervisor: Dr. Cory Butz
- Study emphasis: Deep Learning & Probabilistic Graphical Models

**2015 2016**

**University of Regina,** Canada — *Master of Science in Computer Science*
- Supervisor: Dr. Cory Butz
- Study emphasis: Probabilistic Graphical Models
- Graduate grade point average: 92.8

**2010 2014**

**University of Santa Catarina State,** Brazil — *Bachelor of Industrial System Engineering*

**2013**

**University of Regina,** Canada — *Science Without Borders Brazilian Exchange Program – CNPq*

**2007**

**SENAI,** Brazil — *Maintenance Electrician Industrial Training Course*

## PUBLICATIONS

### Papers in Refereed Journals

1. C. J. Butz, J. S. Oliveira, A. E. dos Santos, A. L. Madsen, *An Empirical Study of Bayesian Network Inference with Simple Propagation*, **International Journal of Approximate Reasoning**, Vol. 92, 198-211, 2018.
2. C. J. Butz, A. E. dos Santos, J. S. Oliveira, C. Gonzales, *An Empirical Study of Testing Independencies in Bayesian Networks using rp-Separation*, **International Journal of Approximate Reasoning**, Vol. 92, 270-278, 2018.
3. C. J. Butz, A. E. dos Santos, J. S. Oliveira, C. Gonzales. *On a Simple Method for Testing Independencies in Bayesian Networks*, **Computational Intelligence**, Vol. 34, No. 3, 789-801, 2018.
4. C. J. Butz, J. S. Oliveira, A. E. dos Santos, *On Darwinian Networks*, **Computational Intelligence**, Vol. 33, No. 4, 629-655, 2017.
5. A. E. dos Santos, A. T. Bringhenti, J. I. Zimmermann, G. O. Verran, R. K. Scalice, D. Bond, *Proposal and evaluation of a selection procedure for cast parts*, **Journal of the Brazilian Society of Mechanical Sciences and Engineering**, Vol. 39, No. 8, 3151-3163, 2017.

### Refereed Conference Papers

1. C .J. Butz, J. S. Oliveira, A. E. dos Santos, A.L. Teixeira, *Deep Convolutional Sum-Product Networks*, **Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)**, 2019.
2. C. J. Butz, A. L. Teixeira, J. S. Oliveira, A. E. dos Santos, *On the Tree Structure of Deep Convolutional Sum-Product Networks*, **Thirty-Second International Florida Artificial Intelligence Research Society Conference (FLAIRS)**, 500--503, 2019.
3. C. J. Butz, A. E. dos Santos, J.S. Oliveira, A. L. Madsen, *Exploiting Symmetry of Independence in d-Separation*, **Thirty-second Canadian Conference on Artificial Intelligence (AI)**, 42--54, 2019.
4. A. L. Madsen, C. J. Butz, J. S. Oliveira, A. E. dos Santos, *Solving Influence Diagrams with Simple Propagation*, **Thirty-second Canadian Conference on Artificial Intelligence (AI)**, 68--79, 2019.

## SKILLS

**Artificial Intelligence**
**Deep Learning**
**Machine Learning**
**Industry 4.0**
**Web Development**
**Product Development**
**Engineering**
**Sum-Product Networks**
**Bayesian Networks**
**Join Tree Propagation**
**Python, C++, R**
**JavaScript, PHP, MySQL**

## TEACHING

*Discrete Computational Structures*
**Cs310**

*Data Structures and Abstractions*
**CS210 Lab**

*Web and Database Programming*
**CS215 Lab**

*Programming and Problem Solving*
**Cs110 Lab**

## LANGUAGES

**English**
*Advanced Professional Proficiency*

**Portuguese**
*Functionally Native Proficiency*

5. C. J. Butz, J. S. Oliveira, A. E. dos Santos, A. L. Teixeira, P. Poupart, A. Kalra, *An Empirical Study of Methods for SPN Learning and Inference*, **Ninth International Conference on Probabilistic Graphical Models (PGM)**, 49--60, 2018.
6. A. L. Madsen, C. J. Butz, J. S. Oliveira, A. E. dos Santos, *Simple Propagation with Arc-Reversal in Bayesian Networks*, **Ninth International Conference on Probabilistic Graphical Models (PGM)**, 260--271, 2018.
7. C. J. Butz, A. E. dos Santos, J. S. Oliveira, J. Stavrinides, *Efficient Examination of Soil Bacteria using Probabilistic Graphical Models*, **Thirty-first International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems**, 315--326, 2018.
8. C. J. Butz, J. S. Oliveira, A. E. dos Santos, *On Learning the Structure of Sum-Product Networks*, **IEEE Symposium Series on Computational Intelligence**, 2997--3004, 2017.
9. A. E. dos Santos, C. J. Butz, J. S. Oliveira, *On Converting Sum-Product Networks into Bayesian Networks*, **Thirtieth Canadian Conference on Artificial Intelligence (AI)**, 329--334, 2017.
10. J. S. Oliveira, C. J. Butz, A. E. dos Santos, *Resolving Inconsistencies of Scope Interpretations in Sum-Product Networks*, **Thirtieth Canadian Conference on Artificial Intelligence (AI)**, 303--315, 2017.
11. C. J. Butz, A. E. dos Santos, J. S. Oliveira, *On Finding Relevant Variables in Discrete Bayesian Network Inference*, **Thirtieth International Florida Artificial Intelligence Research Society Conference (FLAIRS)**, 730--735, 2017.
12. C. J. Butz, A. E. dos Santos, J. S. Oliveira, *Relevant Path Separation: A Faster Method for Testing Independencies in Bayesian Networks*, **Eighth International Conference on Probabilistic Graphical Models (PGM)**, 74--85, 2016.
13. C. J. Butz, J. S. Oliveira, A. E. dos Santos, A. L. Madsen, *On Bayesian Network Inference with Simple Propagation*, **Eighth International Conference on Probabilistic Graphical Models** (PGM), 62 -- 73, 2016.
14. C. J. Butz, A. E. dos Santos, J. S. Oliveira, C. Gonzales, *A Simple Method for Testing Independencies in Bayesian Networks*, **Twenty-ninth Canadian Conference on Artificial Intelligence (AI)**, 213--223, 2016.
15. A. L. Madsen, C. J. Butz, J. S. Oliveira, A. E. dos Santos, *On Tree Structures used by Simple Propagation for Bayesian Networks Inference*, **Twenty-ninth Canadian Conference on Artificial Intelligence (AI)**, 207--212, 2016.
16. C. J. Butz, J. S. Oliveira, A. E. dos Santos, A. L. Madsen, *Bayesian Network Inference with Simple Propagation*, **Twenty-ninth International Florida Artificial Intelligence Research Society Conference (FLAIRS)**, 650 -- 655, 2016.
17. C. J. Butz, A. E. dos Santos, J. S. Oliveira, C. Gonzales, *Testing Independencies in Bayesian Networks with i-Separation*, **Twenty-ninth International Florida Artificial Intelligence Research Society Conference (FLAIRS)**, 644 -- 649, 2016.
18. C. J. Butz, J. S. Oliveira, A. E. dos Santos, *Darwinian Networks*, **Twenty-eighth Canadian Conference on Artificial Intelligence (AI)**, 16--29, 2015.
19. C. J. Butz, J. S. Oliveira, A. E. dos Santos, *Determining Good Elimination Orderings with Darwinian Networks*, **Twenty-eighth International Florida Artificial Intelligence Research Society Conference (FLAIRS)**, 600 -- 603, 2015.

## EXPERIENCE

2019 **Computer Science Department - University of Regina,** Canada — *University Teaching Fellowship CS310 Discrete Computational Structures  - Sessional Lecturer*

2015
2019 **Computer Science Department - University of Regina,** Canada — *Graduate Teaching Assistant CS110, CS215, C210 - Lab instructor, Marker*

2015
2019 **Audio Visual Services - University of Regina,** Canada — *Casual clerk*

2015 **Audio Visual Services - University of Regina,** Canada — *Distant education broadcasting operator*

2013 **Audio Visual Services - University of Regina,** Canada — *Co-op placement*

2011
2012 **Guhring Brasil Ferramentas LTDA,** Brazil — *Logistic assistant*

## LANGUAGES - cont.

**Spanish**
*Conversational Proficiency*

**French**
*Elementary Proficiency*

## AWARDS

**Graduate Studies Research Fellowship (GRF)**
*$22,623.38/year for 4 years*
Fall/2016

**Scholarly Awards**
*$5,600* Winter/2016
*$6,000* Fall/2015
*$3,500* Summer-Spring/2015
*$6,000 Winter/2015*

**Science Without Borders SWG/CanadaCBIE**
*$ 65,023.41 BLR*
2013

## VOLUNTEER/COMMUNITY

**University of Regina Jiu Jitsu Club**
Treasurer (2019)
President (2018)
Logo creator (2018)
Treasurer (2017)

**Brazilian Students Association of University of Regina**
Treasurer (2015-2019)

**RPIRG The Green Patch Garden**
Logo creator (2016)

**UDESC Introduction to Computers for the Elderly and Adults (Voo Livre Project)**
Instructor (2010)