

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.

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.
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*

SKILLS

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

TEACHING

Cs310
Discrete Computational Structures

Cs110 Lab
Programming and Problem Solving

Cs210 Lab
Data Structures and Abstractions

Cs215 Lab
Web and Database Programming

LANGUAGES

English
Advanced Professional Proficiency

Portuguese
Functionally Native Proficiency

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

- 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. Stavrinos, *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 **Computer Science Department - University of Regina, Canada** — *Graduate Teaching Assistant CS110, CS215, C210 - Lab instructor, Marker*
- 2015 **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 **Guhring Brasil Ferramentas LTDA, Brazil** — *Logistic assistant*
- 2012

VOLUNTEER/COMMUNITY

2018 2019	University of Regina Jiu Jitsu Club – <i>President</i>
2018	University of Regina Jiu Jitsu Club – <i>Logo creator</i>
2017 2018	University of Regina Jiu Jitsu Club – <i>Treasurer</i>
2015 2016	Brazilian Students Association of University of Regina – <i>Treasurer</i>
2016	RPIRG The Green Patch Garden – <i>Logo creator</i>
2010	UDESC Introduction to Computers for the Elderly and Adults (Voo Livre Project) – <i>Instructor</i>