□+1 (306) 570 - 1413 | ✓ dossantos@ualberta.ca | 🏕 https://andreeds.github.io/

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Exp			

Computing So	cience Department - University of Alberta	Edmonton, Canada

POSTDOCTORAL RESEARCHER

Synthetic Data & Explainability Spring 2020 - Present

Computer Science Department - University of Regina Regina, Canada

SESSIONAL LECTURER

CS340 Advanced Data Structures and Algorithm Design Summer 2020 CS330 Introduction to Operating Systems Winter 2020 CS115 Object-Oriented Design Winter 2020 CS310 Discrete Computational Structures Fall 2019

GUEST LECTURER

CS875 Database Systems Fall 2018 CS838 Uncertain Reasoning in Al Spring 2017

LAB INSTRUCTOR & MARKER

CS210 Data Structures and Abstractions 2019 CS215 Web and Database Programming 2018 CS110 Programming and Problem Solving 2015 - 2019

Audio Visual Services - University of Regina Regina, Canada

CLERICAL CLERK 2015 - 2019 DISTANT EDUCATION BROADCASTING OPERATOR Winter 2016 CO-OP PLACEMENT Fall 2013

Guhring Brasil Ferramentas LTDA Joinville, Brazil

LOGISTIC ANALYST 2011 - 2012

Education

University of Regina Regina, Canada Ph.D. of Science Student in Computer Science 2016 - 2020

Study emphasis Deep Learning & Probabilistic Graphical Models

MASTER OF SCIENCE IN COMPUTER SCIENCE 2015 - 2016

Study emphasis Probabilistic Graphical Models

University of Santa Catarina State Joinville. Brazil

BACHELOR OF INDUSTRIAL SYSTEM ENGINEERING 2009 - 2014

SENAI Joinville, Brazil

INDUSTRIAL TRAINING COURSE - ELECTRICIAN 2007

Skills

Artificial Intelligence Deep Learning Industry 4.0 Web Development Engineering Bayesian Networks Join Tree Propagation Python C++ Spark JavaScript

Publications

Refereed Conference Papers

- 1. C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Teixeira. Deep convolutional sum-product networks. In *Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, 2019
- 2. C. Butz, A. L. Teixeira, A. E. Dos Santos, and J. S. Oliveira. On the tree structure of deep convolutional sumproduct networks. In *Thirty-Second International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pages 500–503, 2019
- 3. C. J. Butz, A. E. dos Santos, J. S. Oliveira, and A. L. Madsen. Exploiting symmetry of independence in d-separation. In *Thirty-second Canadian Conference on Artificial Intelligence (AI)*, pages 42–54, 2019
- 4. A. L. Madsen, C. J. Butz, J. Oliveira, and A. E. dos Santos. Solving influence diagrams with simple propagation. In *Thirty-second Canadian Conference on Artificial Intelligence (AI)*, pages 68–79, 2019
- 5. C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. An empirical study of Bayesian network inference with simple propagation. *International Journal of Approximate Reasoning (IJAR)*, 92:198–211, 2018
- 6. A. L. Madsen, C. J. Butz, J. S. Oliveira, and A. E. dos Santos. Simple propagation with arc-reversal in bayesian networks. In *Ninth International Conference on Probabilistic Graphical Models (PGM)*, 2018
- 7. C. J. Butz, A. E. dos Santos, J. S. Oliveira, and J. Stavrinides. Efficient examination of soil bacteria using probabilistic graphical models. In *Thirty-first International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems*, pages 315–326, 2018
- 8. C. J. Butz, J. S. Oliveira, and A. E. dos Santos. On learning the structure of sum-product networks. In 2017 IEEE Symposium Series on Computational Intelligence (SSCI), pages 1–8, 2017
- 9. A. E. dos Santos, C. J. Butz, and J. S. Oliveira. On converting sum-product networks into bayesian networks. In *Thirtieth Canadian Conference on Artificial Intelligence (AI)*, pages 329–334, 2017
- 10. J. S. Oliveira, C. J. Butz, and A. E. dos Santos. Resolving inconsistencies of scope interpretations in sumproduct networks. In *Thirtieth Canadian Conference on Artificial Intelligence (AI)*, pages 305–315, 2017
- 11. C. J. Butz, A. E. Dos Santos, and J. S. Oliveira. On finding relevant variables in discrete bayesian network inference. In *Thirtieth International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pages 730–735, 2017
- 12. C. J. Butz, A. E. dos Santos, and J. S. Oliveira. Relevant path separation: A faster method for testing independencies in bayesian networks. In *Eighth International Conference on Probabilistic Graphical Models (PGM)*, pages 74–85, 2016
- 13. C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. Bayesian network inference with simple propagation. In *Twenty-ninth International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pages 650–655, 2016
- 14. C. J. Butz, A. E. dos Santos, J. S. Oliveira, and C. Gonzales. On a simple method for testing independencies in bayesian networks. *Computational Intelligence (CI)*, 34(3):789–801, 2017
- 15. A. L. Madsen, C. J. Butz, J. S. Oliveira, and A. E. dos Santos. On tree structures used by simple propagation. In *Twenty-ninth Canadian Conference on Artificial Intelligence (AI)*, pages 207–212, 2016
- 16. C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. Bayesian network inference with simple propagation. In *Twenty-ninth International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pages 650–655, 2016
- 17. C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. Testing independencies in bayesian networks with i-separation. In *Twenty-ninth International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pages 644–649, 2016
- 18. C. Butz, J. Oliveira, and A. dos Santos. Darwinian networks. In *Twenty-eighth Canadian Conference on Artificial Intelligence (AI)*, pages 16–29, 2015
- 19. C. J. Butz, J. S. Oliveira, and A. E. dos Santos. Determining good elimination orderings with Darwinian networks. In *Twenty-eighth International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pages 600–603, 2015

Papers in Refereed Journals

- 1. C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. An empirical study of Bayesian network inference with simple propagation. *International Journal of Approximate Reasoning (IJAR)*, 92:198–211, 2018
- 2. C. J. Butz, A. E. dos Santos, J. S. Oliveira, and C. Gonzales. An empirical study of testing independencies in bayesian networks using rp-separation. *International Journal of Approximate Reasoning (IJAR)*, 92:270–278, 2018
- 3. C. J. Butz, A. E. dos Santos, J. S. Oliveira, and C. Gonzales. On a simple method for testing independencies in bayesian networks. *Computational Intelligence (CI)*, 34(3):789–801, 2017
- 4. C. J. Butz, J. S. Oliveira, and A. E. dos Santos. On Darwinian networks. *Computational Intelligence (CI)*, 33(4):629–655, 2017
- 5. A. E. dos Santos, A. T. Bringhenti, J. I. Zimmermann, G. O. Verran, R. K. Scalice, and D. Bond. Proposal and evaluation of a selection procedure for cast parts. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 39(8):3151–3163, 2017

Service _____

2016	President Treasurer Secretary, University of Regina Jiu Jitsu Club	Regina, Canada
2020	Tresident Treasurer Secretary, onliversity of Regina sia sitsa etab	ricgina, canada
2016	President Treasurer Secretary, Brazilian Student Association (BRASA)	Regina, Canada
2020	President Treasurer Secretary, Brazilian Student Association (BRASA)	Regina, Canada
2018	Logo & Website creator , University of Regina Jiu Jitsu Club	Regina, Canada
2016	Logo creator , RPIRG The Green Patch Garden	Regina, Canada
2010	Introduction to Computers for the Elderly and Adults , University of Santa	Joinville, Brazil
	Catarina State	JOHNINE, BRUZII

Awards ____

University of Regina	Regina, Canada
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GRADUATE STUDIES RESEARCH FELLOWSHIP (GRF)

\$22,623.38

SCHOLARLY AWARDS

\$5,600	Winter 2016
\$6,000	Fall 2015
\$3,500	Summer/Spring 2015
\$65,023.41 BLR	2013

University of Santa Catarina State

SCIENCE WITHOUT BORDERS SWG/CANADACBIE

\$65.023.41 BRL 2013

Languages _____

English	Advanced Professional Proficiency
Portuguese	Functionally Native Proficiency
Spanish	Elementary Proficiency
French	Elementary Proficiency

About

Brazilian, 28 years old 3^{rn} kyu (light blue belt) in Shorinji Kan Jiu Jitsu Cartoon website https://evahqs.tumblr.com/ Ukulele enthusiast Joinville, Brazil

References

- [1] C. Butz, J. Oliveira, and A. dos Santos. Darwinian networks. In Twenty-eighth Canadian Conference on Artificial Intelligence (AI), pages 16–29, 2015.
- [2] C. Butz, A. L. Teixeira, A. E. Dos Santos, and J. S. Oliveira. On the tree structure of deep convolutional sum-product networks. In Thirty-Second International Florida Artificial Intelligence Research Society Conference (FLAIRS), pages 500–503, 2019.
- [3] C. J. Butz, A. E. dos Santos, and J. S. Oliveira. Relevant path separation: A faster method for testing independencies in bayesian networks. In Eighth International Conference on Probabilistic Graphical Models (PGM), pages 74–85, 2016.
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- [5] C. J. Butz, A. E. dos Santos, J. S. Oliveira, and C. Gonzales. On a simple method for testing independencies in bayesian networks. Computational Intelligence (CI), 34(3):789–801, 2017.
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- [8] C. J. Butz, A. E. dos Santos, J. S. Oliveira, and J. Stavrinides. Efficient examination of soil bacteria using probabilistic graphical models. In Thirty-first International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems, pages 315–326, 2018.
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- [10] C. J. Butz, J. S. Oliveira, and A. E. dos Santos. On Darwinian networks. Computational Intelligence (CI), 33(4):629–655, 2017.
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- [12] C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. Bayesian network inference with simple propagation. In Twenty-ninth International Florida Artificial Intelligence Research Society Conference (FLAIRS), pages 650–655, 2016.
- [13] C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. Testing independencies in bayesian networks with i-separation. In Twenty-ninth International Florida Artificial Intelligence Research Society Conference (FLAIRS), pages 644–649, 2016.
- [14] C. J. Butz, J. S. Oliveira, A. E. dos Santos, and A. L. Madsen. An empirical study of Bayesian network inference with simple propagation. International Journal of Approximate Reasoning (IJAR), 92:198–211, 2018.
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- [16] A. E. dos Santos, A. T. Bringhenti, J. I. Zimmermann, G. O. Verran, R. K. Scalice, and D. Bond. Proposal and evaluation of a selection procedure for cast parts. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 39(8):3151–3163, 2017.

- [17] A. E. dos Santos, C. J. Butz, and J. S. Oliveira. On converting sum-product networks into bayesian networks. In Thirtieth Canadian Conference on Artificial Intelligence (AI), pages 329–334, 2017.
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- [20] A. L. Madsen, C. J. Butz, J. S. Oliveira, and A. E. dos Santos. Simple propagation with arcreversal in bayesian networks. In Ninth International Conference on Probabilistic Graphical Models (PGM), 2018.
- [21] J. S. Oliveira, C. J. Butz, and A. E. dos Santos. Resolving inconsistencies of scope interpretations in sum-product networks. In Thirtieth Canadian Conference on Artificial Intelligence (AI), pages 305–315, 2017.