



## SUMMARY

Ph.D. in Computer Science and Industrial Engineer. Experienced AI researcher with focus on causality and responsible AI. Enthusiastic people leader, content creator, and facilitator.

# André dos Santos

Ph.D. & Industrial Engineer

🏠 Edmonton AB  
Canada

✉️ [andre.dossantos@amii.ca](mailto:andre.dossantos@amii.ca)

☎️ (\*\*\*) \*\*\*-\*\*\*\*

📄 [andreds.github.io](https://andreds.github.io)

## EXPERIENCE

### DIRECTOR OF CURRICULUM

**Alberta Machine Intelligence Institute (AMII) Training Team** - Edmonton, Canada

- SUMMER 2023 - PRESENT* - Act as a functional supervisor to members of the Training Team.
- Acted as a trusted advisor and education facilitator to product streams and clients as they work to determine how best AI and ML tools can solve their business problems.
- MACHINE LEARNING EDUCATOR* - Led, planned and executed all facets of curriculum strategy development on behalf of internal and external clients. Delegated tasks to members of the Training Team as appropriate.
- WINTER 2022 - SUMMER 2023*

### POSTDOCTORAL FELLOW

**UNIVERSITY OF ALBERTA & SCOTIABANK**  
*SPRING 2020 - FALL 2022* **Computing Science Department** - Edmonton, Canada

- Information extraction from unstructured financial data
- Synthetic data generation on panel financial data
- Leader on research and application for AI explainability study with Causality
- NVIDIA GTC 2021 Presentation

### SESSIONAL LECTURER

**UNIVERSITY OF REGINA**  
**Computer Science Department** - Regina, Canada

- Development of course syllabus
- Adapting course material to online during COVID-19 transitioning
- SUMMER 2020* Advanced Data Structures and Algorithm Design *CS340*
- WINTER 2020* Introduction to Operating Systems *CS330*
- WINTER 2020* Object-Oriented Design *CS115*
- FALL 2019* Discrete Computational Structures *CS310*

### GUEST LECTURER

*FALL 2018* Database Systems *CS875*  
*SPRING 2017* Uncertain Reasoning in AI *CS838*

### LAB INSTRUCTOR

*FALL 2018* Data Structures and Abstractions *CS210*  
*SPRING 2017* Web and Database Programming *CS215*  
*2015 - 2019* Programming and Problem Solving *CS110*

### CLERICAL CLERK

**UNIVERSITY OF REGINA**  
*2015 - 2019* **Audio Visual Services** - Regina, Canada

- Managed smart classrooms software installation
- Camera, microphone, and sound operator
- Operated a live studio for a Distance Education Broadcasting, including recording and camera & channel transitions

### CO-OP PLACEMENT

*Fall 2013* - All positions involved setup and troubleshooting of equipment

### LOGISTIC ANALYST

**GUHRING BRASIL FERRAMENTAS LTDA** - Joinville, Brazil  
*2011 - 2012*

- Consulted with production supervisor to schedule production runs in a cost and time-efficient manner
- Prepared and maintained diverse reports on the progress of work, materials used, rates of production and other production information, using manual or computerized systems
- Involved with the planning and executing of 5 S's and ISO9000 certificate
- Recognized and promoted for demonstrating high level of responsibility, diligence, and commitment

## WHY HIRE ME?

- Ability to conduct high-quality research and published in top-tier venues in **artificial intelligence** and machine learning

- Experience with deploying **AI tools** in large-scale, production-level systems

- Proficiency in **Programming, Machine Learning, Web Development, and Product Development**

- An energetic and fast learner who excels at prioritizing, completing **multiple tasks** simultaneously, and following through to achieve project goals

- Excellent **communication skills** proven as workshops facilitator, university lecturer and instructor

- Dedicated and proactive professional with **6 years of experience** in AI, achieving high-quality deliveries by providing technical expertise on **research innovation** and **solution design** in different industries

- Strong people **leadership** skills and expertise in **project management**, with the ability to effectively lead and deliver successful projects on time and on budget

## PROFESSIONAL SKILLS

Python ██████████

C++ ██████████

MySQL ██████████

TensorFlow ██████████

R ██████████

Keras ██████████

Spark ██████████

JavaScript ██████████

RAPIDs ██████████

Pandas ██████████

# André

# dos Santos

Ph.D. & Industrial Engineer

## EDUCATION

### DOCTOR OF PHILOSOPHY

2016 - 2020

UNIVERSITY OF REGINA

Ph.D. of Science in Computer Science - Regina, Canada

Deep Learning & Probabilistic Graphical Models

### MASTER OF SCIENCE

2015 - 2016

UNIVERSITY OF REGINA

M.Sc. Computer Science - Regina, Canada

Probabilistic Graphical Models

### ENGINEERING

2010 - 2014

UNIVERSITY OF SANTA CATARINA STATE

Bachelor of Industrial System Engineering - Joinville, Brazil

### ELECTRICIAN

2010 - 2014

SENAI

Industrial Training Course - Joinville, Brazil

## PUBLICATIONS

### NVIDIA GTC

2021

Synthetic Data Generation of Financial Transactions: A Privacy-Driven Roadmap for Unsupervised Learning

A. E. dos Santos, J. Lamontagne, D. Barbosa, P. Edwards.

### AAAI

2019

Deep Convolutional Sum-Product Networks

C. J. Butz, J. S. Oliveira, A. E. dos Santos, A. L. Teixeira

### IJAR

2018

An Empirical Study of Bayesian Network Inference with Simple Propagation.

C. J. Butz, J. S. Oliveira, A. E. dos Santos, A.L. Madsen

### +23 PUBLICATIONS

2015 - 2021

Conferences & Journals

## SERVICE

2022 - PRESENT

TENANT FLOOR WARDEN

Amii / First and Jasper - Edmonton, Canada

2022 - PRESENT

BOARD OF DIRECTORS MEMBER

Queer & Trans Health Collective (QTHC) - Edmonton, Canada

2016 - 2020

PRESIDENT, TREASURER, SECRETARY, LOGO CREATOR

University of Regina Jiu Jitsu Club - Regina, Canada

2016 - 2020

PRESIDENT, TREASURER, SECRETARY

Brazilian Student Association (BRASA) - Regina, Canada

2018

LOGO CREATOR

RPIRG The Green Patch Garden - Regina, Canada

2016 - 2020

INTRODUCTION TO COMPUTERS FOR THE ELDERLY AND ADULTS

University of Santa Catarina State - Joinville, Brazil

## LANGUAGES

English



French



Portuguese



Spanish



## AWARDS

\$ 22,623.38

2016 - 2020

GRADUATE STUDIES RESEARCH FELLOWSHIP (GRF)

University of Regina - Regina, Canada

\$ 5,600

WINTER 2016

\$ 6,000

FALL 2015

\$ 3,500

SUMMER 2015

SCHOLARLY AWARDS

University of Regina - Regina, Canada

\$ 65,023.41 BRL

2013

SCIENCE WITHOUT BORDERS

SWG/CANADA CBIE

University of Santa Catarina State - Joinville, Brazil

## INTERESTS



3<sup>rd</sup> kyu (light blue belt) in Shorinji Kan Jiu Jitsu



Ukulele enthusiast



Cartoonist



Standard First Aid with CPR C & AED

