



## 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)

☎️ (\*\*\*) \*\*\*-\*\*\*\*

💻 [andreeds.github.io](https://andreeds.github.io)

## EXPERIENCE

### MACHINE LEARNING EDUCATOR Alberta Machine Intelligence Institute (AMII)

SUMMER 2022 - PRESENT Training Team - Edmonton, Canada

- 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.
- Delivered and facilitated engaging workshops, lectures, and full courses for a variety of audiences.
- Approached personal development and learning opportunities with a collaborative lens and drew lessons for future coaching and people leadership opportunities
- Firmly established themselves as trusted subject matter expert

### ASSOCIATE MACHINE LEARNING EDUCATOR

WINTER 2022 - SUMMER 2022

### 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

### UNIVERSITY OF REGINA

Computer Science Department - Regina, Canada

- Development of course syllabus
- Adapting course material to online during COVID-19 transitioning

### SESSIONAL LECTURER

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

WINTER 2016

### CO-OP PLACEMENT

Fall 2013

### 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++



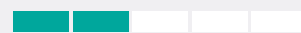
MySQL



TensorFlow



R



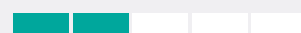
Keras



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

