

Marcelo Prates, PhD

Data Scientist at Poatek IT Consulting



Linked in /in/marceloprates



inf.ufrgs.br/ morprates/



github.com/marceloprates



+55 51 993-093-246

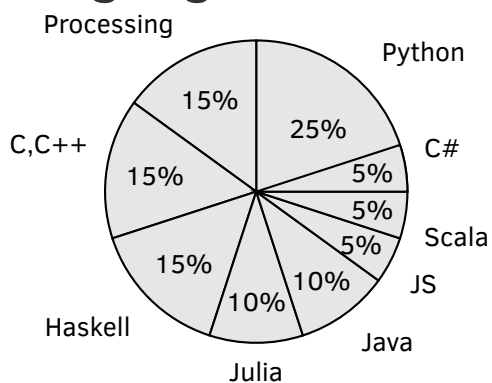


marceloop@gmail.com

Skills

- Deep Learning
- DL for computer vision (CNNs) and sequences / language modelling (RNNs)
- Neural-Symbolic Reasoning / Geometric Deep Learning / Graph Neural Networks
- Deep Reinforcement Learning
- Constraint Satisfaction / Combinatorial Optimization
- Data Science

Languages



Professional Experience

Aug 2015 - Today

Data Scientist
Porto Alegre, Brazil

Poatek IT Consulting

Education

Aug 2015 - July 2019 **PhD, Computer Science**

PPGC - UFRGS

Porto Alegre, Brazil

PhD Thesis: Learning to Solve NP-Complete Problems

Mar 2010 - Aug 2015

BSc, Computer Science
Porto Alegre, Brazil

UFRGS

Research

2015 - 2019

PhD, Computer Science

PPGC - UFRGS

- Phase transitions on constraint satisfaction problems
 - [Problem Solving at the Edge of Chaos: Entropy, Puzzles and the Sudoku Freezing Transition](#), ICTAI 2018
- Ethics of artificial intelligence
 - [On Quantifying and Understanding the Role of Ethics in AI Research: A Historical Account of Flagship Conferences and Journals](#), GCAI 2018
 - [Assessing Gender Bias in Machine Translation - A Case Study with Google Translate](#) (Measuring the extent of gender bias in translations from gender neutral languages to English)
- Deep Learning
 - [Neural Networks Models for Analyzing Magic: The Gathering Cards](#), ICONIP 2018
 - [Learning to Solve NP-Complete Problems - A Graph Neural Network for the Decision TSP](#), AAAI 2019
 - [Multitask Learning on Graph Neural Networks - Learning Multiple Graph Centrality Measures with a Unified Network](#), ICANN 2019
 - [Graph Colouring Meets Deep Learning: Effective Graph Neural Network Models for Combinatorial Problems](#), ICTAI 2019

2012 - 2015

BSc, Computer Science

UFRGS

- Social & Human Computation
 - [Collaboration in Social Problem-Solving: When Diversity Trumps Network Efficiency](#), AAAI 2015
 - [Leveraging Collaboration: A Methodology for the Design of Social Problem-Solving Systems](#), HCOMP 2013

Experience

April 2018
Today

Volunteer Mathematics Teacher

ONGEP Pré-Vestibular Popular

2017
Today

Deep Learning Experience

PPGC - UFRGS

- Experience with industrial deep learning tools and techniques including Tensorflow, Keras, Pytorch, CNNs & GNNs

2015
Today

Experience as a generative artist

Years of experience with [generative art](#) in Processing, [Open-Processing](#), Haskell & Python