Ricardo Bigolin Lanfredi

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EDUCATION

PhD in Electrical and Computer Engineering August 2017 - August 2022
University of Utah - Salt Lake City, UT - GPA: 4.0/4.0

MSc in Engineering September 2012 - February 2016
CentraleSupélec - Châtenay-Malabry, France
Awarded with **Eiffel Excellence Scholarship** - GPA: 4.16/4.33

BS in Electrical Engineering March 2010 - January 2016
Universidade Federal do Rio Grande do Sul (UFRGS) - Porto Alegre, Brazil
Graduated with honors - GPA: 10/10

EXPERIENCE

Graduate Assistant January 2018 - Present
Scientific Computing and Imaging Institute at the University of Utah
- Working with Computer Vision / Deep Learning on radiological images

Applied Scientist Intern May 2019 - August 2019
AWS Rekognition at Amazon

Teaching Assistant
Department of Electrical and Computer Engineering at the University of Utah

Deep Learning for Image Analysis January 2019 - May 2019
- Created and graded assignments and gave a few lectures for 40 students

Electrical Eng. for Nonmajors August 2018 - December 2018
- Instructed 60 students in laboratory sessions

Data Analyst March 2016 - July 2017
Lojas Quero-Quero - Cachoeirinha, Brazil
- Supported the purchase division of the retail company and developed, in a team, an internal web application (full stack) for storing prices from competitors

Research Intern August 2014 - January 2015
GE Healthcare - Buc, France
- Modeled a medical X-ray system for simulation, using physics and signal processing

SKILLS

Languages: English (fluent), French (fluent), Portuguese (native)

Programming: **Most experienced**: Python, PyTorch, TensorFlow
Some experience: C / C++, PostgreSQL, MATLAB
Slight experience: HTML, CSS, Bootstrap, PHP, JavaScript, Java

Interests: Research, Computer Vision, Medical Image Analysis, Deep Learning, Machine Learning

MAIN PUBLICATIONS

Lanfredi, R B, Schroeder, J, Vachet, C, Tasdizen, T. *Interpretation of Disease Evidence for Medical Images Using Adversarial Deformation Fields.* Early acceptance for the main conference at **MICCAI 2020**.

Lanfredi, R B, Schroeder, J, Vachet, C, Tasdizen, T. *Adversarial regression training for visualizing the progression of chronic obstructive pulmonary disease with chest x-rays.* Early acceptance fo the main conference at **MICCAI 2019**. Awarded with **MICCAI 2019 Graduate Student Travel Award**.

Javanmardi, M, Lanfredi, R B, Cetin, M, Tasdizen, T. *Image Segmentation by Deep Learning of Disjunctive Normal Shape Model Shape Representation.* **DiffCVML (CVPR Workshop) 2018**. Presented by Lanfredi, R B.