

# LUIZ FERNANDO PUTTOW SOUTHER

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## EDUCATION



### Post Doctorate in Artificial Intelligence

Federal University of Technology - Parana, Pato Branco, Brazil

Mar 2023

Dec 2024

### MBA in Artificial Intelligence and Big Data

University of São Paulo, São Paulo, Brazil

Mar 2023

Oct 2024

### PhD in Data Science

Pontifical Catholic University of Parana, Curitiba, Brazil

GPA: 10.0/10.0

Sep 2019

Mar 2023

### Master of Science in Electrical Engineering

Federal University of Technology - Parana, Pato Branco, Brazil

GPA: 9.5/10.0

Sep 2017

Sep 2019

### Bachelor of Science in Computer Engineering

Federal University of Technology - Parana, Pato Branco, Brazil

GPA: 8.6/10.0

Sep 2017

Mar 2011

### Scientific Mobility Program for Bachelor of Science in Computer Engineering Specialization in Web Design

The Pennsylvania State University, University Park, PA

GPA: 4.0

Aug 2013

Dec 2014

### Intensive English Communication Program

The Pennsylvania State University, University Park, PA

GPA 4.0

Aug 2013

Dec 2013

## EMPLOYMENT EXPERIENCE



### Professor

Federal University of Technology - Parana, Pato Branco, Brazil

Professor and Researcher at the Informatics Department.

May 2024

### Researcher. Head of research team

Federal University of Technology - Parana, Pato Branco, Brazil

Solution to correlate patterns in children's fingerprints with signs of the same individual at later ages.

Mar 2023

Mar 2025

### Researcher. Advisor Edson Scalabrin - PhD

Pontifical Catholic University of Parana, Curitiba, Brazil

UpFlux, Jaraguá do Sul, Brazil

Development of a framework to understand and review clinical processes.

Aug 2019

Mar 2023

### Researcher. Advisor Marcelo Teixeira - PhD

Federal University of Technology - Parana, Pato Branco, Brazil

Development of a web tool for public administration of the municipality of Vacaria, Brazil

Sep 2017

Aug 2019

**Research Assistant. Advisor José Donizetti de Lima - PhD**

Federal University of Technology - Parana, Pato Branco, Brazil

Development of a web tool for Study and Research in Economic Feasibility of Investment Projects - SAVEPI

Mar 2015

Jul 2017

**Research Assistant. Advisor Dennis Shasha - PhD**

New York University, NY, USA

Development of a web tool for meal planning with Linear Programming

May 2014

Aug 2014

**Research Assistant. Advisor Teodora Pinheiro Figueroa - PhD**

Federal University of Technology - Parana, Pato Branco, Brazil

Development of web system for planned harvest of eucalyptus forest

Mar 2011

Aug 2013

**ACADEMIC  
SKILLS**

- ✓ Algorithms and Data Structures
- ✓ Analytic Geometry
- ✓ Artificial Intelligence
- ✓ Big Data
- ✓ Calculus
- ✓ Communication Systems
- ✓ Compilers
- ✓ Complex Networks
- ✓ Computational Security
- ✓ Computer Architecture and Organization
- ✓ Computer Graphics
- ✓ Computer Networks
- ✓ Computer Theory
- ✓ Content-Based Retrieval
- ✓ Control of Discrete Event Systems
- ✓ Control Systems
- ✓ Data Engineering
- ✓ Data Governance
- ✓ Data Management
- ✓ Data Mining
- ✓ Data Science
- ✓ Data Visualization
- ✓ Databases
- ✓ Deep Learning
- ✓ Digital Systems
- ✓ Discrete Mathematics
- ✓ Distributed Systems
- ✓ Economy
- ✓ Electric Power Systems
- ✓ Electronics and Instrumentation
- ✓ Embedded Systems
- ✓ Entrepreneurship
- ✓ Human-Computer Interaction
- ✓ Linear Algebra
- ✓ Machine Learning
- ✓ Multimedia Data Analysis
- ✓ Natural Language Processing
- ✓ Neural Networks
- ✓ Operational Systems
- ✓ Optimization Methods
- ✓ Probability and Statistics
- ✓ Process Mining
- ✓ Reconfigurable Logic
- ✓ Research Methodology
- ✓ Robotics
- ✓ Signal Processing
- ✓ Software Engineering
- ✓ Technical Drawing
- ✓ Text Mining

**SOFTWARE  
SKILLS**

- ✓ C++
- ✓ CSS
- ✓ HTML
- ✓ Java
- ✓ JavaScript
- ✓ MATLAB
- ✓ PHP
- ✓ Python
- ✓ MySQL
- ✓ SqlServer
- ✓ PostgreSQL
- ✓ Adobe Suite
- ✓ Corel Draw
- ✓ Google Search
- ✓ Microsoft Office
- ✓ Simulink

**INVOLVEMENT**

2017-2019

**Instructor**, Excel Course



2015-2019  
2016-2017  
2011-2013  
2011-2013  
2012-2013  
2012-2013  
2011-2012

**Instructor**, MatLab Course  
**President**, Computer Engineering Students Body  
**Member**, Continuing education in Theater Workshop - Group Artificer  
**Member**, Continuing education in English language  
**Instructor**, Hypertext Markup Language Course  
**Instructor**, Integral Differential Calculus Course  
**Instructor**, Computer Graphics - Mathematical Foundations