

Pedro Maciel Xavier

BSc '23 ♦ BSc '23



||||| EDUCATION

Purdue University, West Lafayette, IN

aug '25 ► present Ph.D. Electrical & Computer Engineering*

FIRST YEAR with Vassilis Kekatos

aug '24 ► jul '25 Ph.D. Chemical Engineering

TRANSFERRED with David E. Bernal Neira

Federal University of Rio de Janeiro, Brazil

jul '22 ► present M.Sc. Computer Science & Systems Engineering*

GPA .96 ⓘ with Nelson Maculan & David E. Bernal Neira

apr '16 ► apr '23 B.Sc. Computer & Information Engineering

GPA .79 ⓘ with Priscila Machado Vieira Lima

feb '18 ► apr '23 B.Sc. Mathematics

DOUBLE MAJOR

||||| EXPERIENCE

Microsoft Research, Cambridge, UK

Julia Git Mathematical Programming Analog Optimization Open-Source

apr '24 ► jul '24 Research Intern

FULL-TIME with Christos Gkantsidis & Kirill Kalinin

PSR Energy Consulting & Analytics, Rio de Janeiro, Brazil

Julia Python GIS Git Operations Research Power Systems Analysis

Stochastic Optimization Innovation Quantum Optimization Open-Source

mar '23 ► mar '24 Research & Development Analyst

FULL-TIME with Joaquim Dias Garcia & Guilherme Bodin

nov '21 ► feb '23 Research & Development Intern

PART-TIME with Joaquim Dias Garcia

Purdue University, West Lafayette, IN

Julia Git Disjunctive Programming Quantum Optimization Open-Source

aug '23 ► dec '23 Visiting Scholar

FULL-TIME with David E. Bernal Neira

||||| SELECTED PUBLICATIONS

jun '24 Disjunctive Programming meets QUBO

CACE 1ST with Pedro Ripper, Joshua Pulsipher, Joaquim Dias Garcia, Nelson Maculan & David E. Bernal Neira

sep '23 QUBO.jl: A Julia Ecosystem for Quadratic Unconstrained Binary Optimization

ARXIV 1ST with Pedro Ripper, Tiago Andrade, Joaquim Dias Garcia, Nelson Maculan & David E. Bernal Neira

aug '22 Computation for Architecture, hybrid visual and textual language: Research developments and considerations about the implementation of structural imperative and object-oriented paradigms

IJAC 2ND with Gonçalo Castro Henriques, Victor de Luca Silva, Luca Rédua Bispo & João Victor Fraga

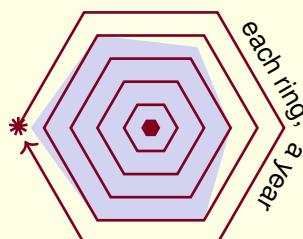
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LANGUAGES /

🇧🇷 native
🇬🇧 fluent
🇪🇸 intermediate
🇩🇪 basic

TREE RINGS /



power systems
machine learning
optimization
software engineering
quantum computing
architecture



* ongoing ⓘ incoming