

# 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 1<sup>ST</sup> 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 1<sup>ST</sup> 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 2<sup>ND</sup> with Gonçalo Castro Henriques, Victor de Luca Silva, Luca Rédua Bispo & João Victor Fraga

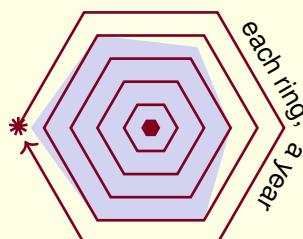
## CONTACT /

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## LANGUAGES /

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

## TREE RINGS /



power systems  
machine learning  
optimization  
software engineering  
quantum computing  
architecture



\* ongoing ⓘ incoming