Ernée Kozyreff Filho

São Paulo, Brazil — ekozyreff@gmail.com — LinkedIn: ekozyreff

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Profile Summary

Experienced Operations Research specialist with a robust academic background and diverse industry experience. Skilled in applying mathematical and statistical methods using programming and optimization solvers. Committed to enhancing processes and decision-making in dynamic environments through continuous learning and problem-solving.

Experience

Operations Research Analyst, Mercado Livre (September 2024 - Present)

Developing solutions to improve logistics using mathematical programming and statistical methods.

Analytic Projects Engineer, Klabin (May 2023 - August 2024)

Created tools to optimize wood transportation and celulose pulp scheduling, among other projects.

Sabbatical (February 2022 - April 2023)

Took a career break for personal growth and to explore new avenues.

Assistant Professor, Unesp (August 2016 - January 2022)

Taught "Operations Research", "Probability and Statistics", and "Systems Simulation".

College Professor, Facens (August 2014 - July 2016)

Taught "Calculus", "Linear Algebra", "Statistics", and "Operations Research".

Research Assistant, Texas Tech University (September 2009 - May 2014)

Collaborated on articles published in esteemed journals within the field of Operations Research, including "Mathematical Programming" and "Computers & Industrial Engineering".

Math Teacher, High Schools (August 2006 - December 2008)

Taught all areas of mathematics to high school students.

Production Manager, Pilkington (July 2005 - May 2006)

Managed people, expenses, maintenance, and manufacturing of glass production lines.

Process Engineer, Pilkington (January 2003 - June 2005)

Assisted in improving raw material usage and work procedures on glass cutting lines.

Intern, Itaú (February 2002 - August 2002)

Worked on building spreadsheets and creating reports for senior management.

Education

PhD in Operations Research, Texas Tech University (2009 - 2014)

MS in Mathematics, Texas Tech University (2009 - 2012)

MS in Industrial Engineering, Instituto Tecnológico de Aeronáutica (2007 - 2009)

BS in Civil Engineering, Instituto Tecnológico de Aeronáutica (1998 - 2002)

Skills

Expertise in Operations Research, Mathematical Modeling, Data Science, Python, Excel, and VBA. Proficient in using optimization solvers such as CBC, SCIP, CPLEX, and Gurobi.

Languages

Portuguese (Native), English (Fluent), Spanish (Full Professional)

Select Publications

E. KOZYREFF, I. R. DE FARIAS. A note on critical-set and lifted surrogate inequalities for cardinality-constrained linear programs. Computers & Industrial Engineering, v. 82, 1-7, 2014. Link

I. R. DE FARIAS, **E. KOZYREFF, E.**, M. ZHAO. Branch-and-cut for complementarity-constrained optimization. Mathematical Programming Computation, v. 6, 365–403, 2014. Link

I. R. FARIAS, **E. KOZYREFF**, R. GUPTA, M. ZHAO. Branch-and-cut for separable piecewise linear optimization and intersection with semi-continuous constraints. Mathematical Programming Computation, v. 5, 75-112, 2013. Link