

EDUCATION**Massachusetts Institute of Technology – Cambridge, MA****M.S. in Technology and Policy****June 2005**

Thesis: “Opportunities for Technological and Economic Development Policy in Brazil”

Relevant courses include:

- Economic Development and Technological Capabilities
- Sustainable Energy
- Economics for Business Decisions
- Law, Technology, and Public Policy
- System Dynamics at MIT Sloan
- Development Lab (D-Lab)

M.Eng. in Materials Science and Engineering**June 2003**

Thesis: “Process Modifications for Improved Optical Characteristics of K-Type Polarizer”

Relevant courses include:

- Materials Selection, Design, and Economics
- Industry, Technology, and Ecology

B.S. in Chemical Engineering, June 2002**June 2002**

Relevant courses include:

- Industrial Ecology
- Developmental Entrepreneurship
- Environmentally Benign Manufacturing
- Drug Development in Practice

EXPERIENCE**MIT Edgerton Center: International Development Initiative, *Instructor*****July 2005 – present**

- Perform research into best practices of technology dissemination in developing countries.
- Lead MIT projects in Brazil, including technical work and long-term partnerships.
- Project leader for technical communications exchange at Cape Peninsula University of Technology, South Africa.
- Co-develop and co-teach course on technology dissemination in developing countries
- Give lectures on the role of and design of technology in international development.

MIT: Sustainable Energy: Choosing Among Options, *Teaching Assistant***January 2005 – June 2005**

- Taught graduate students the basics of energy production and analysis, emphasizing the importance of technology evaluation and appropriateness.

MIT: Lab for Manufacturing and Productivity, *Research Associate***September 2003 – January 2005**

- Performed analysis of environmental impact of manufacturing processes, emphasizing energy and material flows.
- Consulted on decision-making related to sustainability and environmental factors in design and manufacturing.

3M Optical Systems Division, Norwood, MA, *Research Intern***May – September 2001; January– May 2003**

- Worked closely with process engineers to improve characteristics of high-end polarizers.
- Explored dichroic dyes in polarizers, making significant steps to include this technology in new products.

LANGUAGES

Native English speaker. Fluent in Portuguese, French, and Spanish. Basic German, Mandarin.

CONFERENCES AND PUBLICATIONS

- Panelist, “The Role of Educational Institutions and NGOs in the Entrepreneurial Ecosystem,” MIT \$50K Global Startup Workshop, 2006, Argentina.
- Moderator, “Students’ Challenge in Sustainability Education,” Integrated Research System for Sustainability Science-Asian Institute of Technology Joint Symposium on Sustainability Science, 2006, Thailand.
- Moderator, “Communication for Sustainability,” Meeting of the Alliance for Global Sustainability, 2006, Thailand.
- Panelist, “Social Entrepreneurship,” MIT \$50K Global Startup Workshop, 2005, United Arab Emirates.
- MIT Representative, University of Tokyo –AIT Intensive Program on Sustainability, Thailand, 2005.
- Co-author, “Environmental Analysis of Manufacturing Processes,” 2005 NSF DMII.
- Lead author, “Life Cycle Analysis of Conventional Manufacturing Techniques: Sand Casting,” ASME 2004.
- Co-author, “Origins of Anomalous Micellization in Diblock Copolymer Solutions,” *Langmuir*.

ADDITIONAL ACHIEVEMENTS

- 2003 Ideas that Matter grant recipient for social norms marketing in MIT community.
- MIT \$1K Entrepreneurship Competition winning business proposal team, Dlo Pròp, 2001.
- Shell Gourami Business Challenge, Spain; multidisciplinary business simulation, 2001.
- Recipient of the 2001 3M Scholars Scholarship.
- Recipient of the 1998 Minnesota Technology Group Award and Scholarship.