



COMPUTER SCIENTIST, INTERESTED IN ALL ASPECTS OF COMPUTING AND WEB DEVELOPMENT, ESPECIALLY IN FRONT-END WEB PROGRAMMING WITH JAVASCRIPT & REACT, AND THE APPLICATIONS OF LOGIC IN COMPUTER SCIENCE.



Technologies (Web Projects)

Frameworks	REACT/REDUX	NODE	EXPRESS	FLASK/DJANGO
Programming	JAVASCRIPT	PYTHON	ISABELLE	HASKELL
Markup & Styling	HTML	CSS	BOOTSTRAP	SEMANTIC-UI
Testing	JEST	PUPPETEER		

Experience

ASSOCIATE PROFESSOR
CS COURSE COORDINATOR (2012 - 2018)
TUTOR OF GOVERNMENT'S TUTORIAL EDUCATION PROGRAM, **PET** (2018 - 2019)
PUCRS (2002 - 2019) TUTOR OF GOVERNMENT'S TUTORIAL EDUCATION PROGRAM, **PET** (2005 - 2010)
TEACHING: DATA STRUCTURES, LOGIC FOR CS, THEORY OF COMPUTATION, FORMAL LANGUAGES, FORMAL METHODS, FUNCTIONAL PROGRAMMING

ASSOCIATE PROFESSOR
ULBRA (1999 - 2002) TEACHING: LOGIC FOR CS, THEORY OF COMPUTATION, FORMAL LANGUAGES

Education

(2020 - Harvard)	CS50's WEB PROGRAMMING WITH PYTHON AND JAVASCRIPT
(1999 - PhD Thesis)	CS50's INTRODUCTION TO COMPUTER SCIENCE RELATING ARROWS BETWEEN INSTITUTIONS IN A CATEGORICAL FRAMEWORK, TECHNISCHE UNIVERSITÄT BERLIN
(1995 - Master Thesis)	AN INTRODUCTION TO CATEGORY THEORY AND ITS APPLICATION TO COMPUTER SCIENCE
(1992 - Bachelor's Thesis)	A USER INTERFACE FOR THE SOLUTION OF NUMERICAL PROBLEMS

Main Publications (Publications)

- Wolter, U., Martini, A., Haeusler, E.H. **Indexed and Fibred Structures for Partial and Total Correctness Assertions**. August, 2021. Submitted for publication.
- Martini, A. **Reasoning about Partial Correctness Specifications in Isabelle/HOL**. Revista de Informática Teórica e Aplicada - RITA - Vol. 27, Num. 3 (2020) 84-101.
- Wolter, U., Martini, A., Haeusler, E.H. **Indexed and Fibred Structures for Hoare Logic**. Electronic Notes in Theoretical Computer Science, vol 348, 1 March 2020, Pages 125-145.
- Wolter, U., Martini, A., Haeusler, E. H. **Towards a Uniform Presentation of Logical Systems by Indexed Categories and Adjoint Situations**. Journal of Logic and Computation, Volume 25, Issue 1, February 2015, Pages 57–93.
- Martini, A. **Programming Language Semantics with Isabelle/HOL**. In 2th Workshop-School on Theoretical Computer Science, WEIT2013. IEE Xplore, 2013.
- Martini, A., Wolter, U., Haeusler, E. H. **Fibred and Indexed Categories for Abstract Model Theory**. Logic Journal of the IGPL, Volume 15, Issue 5-6, October 2007, Pages 707–739.