Daniela Ferreiro de Aguiar

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Research Interests Abstract Interpretation; Static Analysis, Verification, and Testing of Software; (Constraint) Logic Programming; Programming Language Design and Implementation.

Education

Technical University of Madrid, Madrid (Spain)

PhD in Software, Systems, and Computing 2023-...

Topic: Abstract Testing.
Supervisors: Manuel Hermenegildo and José Francisco Morales

MSc Formal Methods in Computer Science and Engineering 2021-2023

Static analysis of programs and constraint solving course passed with honors
MSc thesis: *A System for generating interactive tutorials for CiaoPP*
- Thesis grade: 10/10 (proposed for honors)
- In collaboration with the IMDEA Software institute

Degree in Mathematics and Computer Science 2017-2021

BSc thesis: *Automatic analysis of code examples*
- Thesis grade: 10/10
- In collaboration with the IMDEA Software institute

Experience

Research Student
IMDEA Software Institute, Computational Logic, Languages, Implementation and Parallelism (CLIP) Group Mar 2021-...
Working under the supervison of Manuel Hermenegildo and José F. Morales at the IMDEA Software Institute. Part of the development team of the Ciao programming language, focused on the abstract interpreter of its preprocessor, CiaoPP.

Publications

1. D. Ferreiro, J.F. Morales, S. Abreu, M.V. Hermenegildo
Demonstrating (Hybrid) Active Logic Documents and the Ciao Prolog Playground, and an Application to Verification Tutorials. Technical Communications of the 39th International Conference on Logic Programming, 2023.
2. J.F. Morales, S. Abreu, D. Ferreiro, M.V. Hermenegildo
Teaching Prolog with Active Logic Documents. Prolog - The Next 50 Years, 2023.

Talks

Demonstrating (Hybrid) Active Logic Documents and the Ciao Prolog Playground, and an Application to Verification Tutorials, ICLP'23, London, UK, 2023.

Projects

Participating in the PROCODE project 2021-...
Rigorous methods for the development of software systems with certified quality and reliability. Code: PID2019-108528RB-C21. Spanish MICIIN.

Extra activities

Participated in the **Madrid is Science Fair** disseminating event — Mar 2024

Part of the PhD students group of *IMDEA Software* helping in the recruitment process for faculty candidates — Feb-Apr 2024

Participated in the **Madrid is Science Fair** disseminating event — Mar 2023

Mentor Project — Sept 2018-Jun 2019
Universidad Politécnica de Madrid
The aim of this project is to offer new first-year students guidance when they first join the Facultad de Informática.

Languages

Spanish (native), English (advanced), Galician (advanced)