

Jonathan Prieto-Cubides

+47 46860287

jcu043@uib.no, jprieto9@eafit.edu.co

<http://www.github.com/jonaprieto>

Date of Birth: 1991-04-18

Gender: Male

Citizenship: Colombia

Current Profession: Ph.D. Research Fellow

CR 45 No. 68 Sur 36 Sabaneta, Antioquia

Fosswinckels GATE13, 5007, Bergen, Norway

Ph.D Research Fellow in the Department of Informatics at University of Bergen in Norway. Currently studying mathematics for computer science, i.e., foundations and algorithms.

Research Experience

Research Fellow

2018-present

University of Bergen. ICT Research Group. PUT.. Bergen, Norway

- Type Theory, Functional Programming

Young Research Assistant

2016-2017

EAFIT University. Logic and Computation Research Group. Medellín, Colombia

- Logic, Type Theory, Agda, Functional Programming

Young Researcher

2013-2015

Observatorio de Restitución y Regulación de Derechos de la Propiedad Agraria. Bogotá, Colombia

- Text Data Mining, Machine Learning, Algorithms, Functional Programming

Teaching Experience

Engineering

2016-II

Instituto Tecnológico Metropolitano. Medellín, Colombia

- Linear Algebra

\

- Linear Programming and Algebra

\

Young Lecturer

2011-2014

Universidad Sergio Arboleda. Bogotá, Colombia

- Algorithms I and II

2011-2012, 2014

- Discrete Mathematics jointly Competitive Programming

2014-2015

Education

Ph.D. in Computer Science

2018-present

University of Bergen. Bergen, Norway

(4 years)

Emphasis in Type Theory and Functional Programming

Thesis Title. –not available yet–

Advisory. Marc Bezem

Master in Applied Mathematics

2016-2017

EAFIT University. Medellín, Colombia.

(2 years)

Emphasis in Logic, Type Theory, and Functional Programming.

Thesis Title. Proof Reconstruction for Metis in Agda

Advisory. Andrés Sicard-Ramírez

Bachelor in Mathematics

2007-2013

Sergio Arboleda University. Bogotá, Colombia.

(5 years)

Emphasis in Computer Science

Thesis Title. An Introduction to Elliptic Curves

Advisory. PhD. Hermes Jackson

Publications

- Prieto-Cubides J., Argoty Camilo. *Dealing with Missing Data using a Selection Algorithm on Rough Sets*. 2017. International Journal of Computational Intelligence Systems. (Submitted)

Open-Source Projects

Athena

Haskell, Agda

<http://github.com/jonaprieto/athena>

Athena is a Haskell program that translates proofs given by Metis Prover in TSTP format to Agda code. This work was present in the *Agda Implementors' Meeting XXV* at Chalmers University.

Agda-Prop

Agda

<http://github.com/jonaprieto/agda-prop>

Agda library to work with Classical Propositional Logic using a deep embedding. Natural deductions Proofs for around seventy theorems.

Agda-Metis

Agda

<http://github.com/jonaprieto/agda-metis>

This library aims to provide the necessary functions and theorems for Athena to reconstruct proofs found by the automatic theorem prover, Metis.

Haskell

OnlineATPs

<http://github.com/jonaprieto/online-atps>

OnlineATPs is a command-line client for TPTP World. We can use an online ATP as it would be running locally. Indeed, SystemOnTPTP has available more than forty automatic theorem provers and we take advantage of all.

Latex

Curriculum-Vitae

<http://github.com/jonaprieto/curriculum-vitae>

This document was generated using this project. It makes easier maintain your Resume using LaTeX and Pandoc.

Python

PonyWhoosh

<http://github.com/jonaprieto/ponywhoosh>

Integration between the Whoosh search engine and PonyORM, this library makes your database full-text searchable

Python

Flask-PonyWhoosh

<http://github.com/jonaprieto/flask-ponywhoosh>

A web search engine for flask using PonyORM and Whoosh.

Private Projects

Mathematica

Poirot

Sergio Arboleda University, IEPRI, COLCIENCIAS

Poirot is a text search, a package, and analysis platform programmed in Mathematica®, designed for retrieval, analysis and systematization of large textual data (in the order of tens of thousands of files). Poirot is tailored for the needs of qualitative researchers, journalists, and state officials (in the judiciary, for example), that need to find specific textual bits in big masses of unstructured text.

Languages

- English - B2
- Spanish - Native speaker

Achievements

- Scholarship. Agda Implementors' Meeting XXV at Chalmers University. Gotenburg, Sweden.
- Scholarship to study the master program in applied mathematics at EAFIT University
- Financial support to study mathematics at Sergio Arboleda University
- Member of the the program for talent young of high school. Sergio Arboleda University
- ACM-ICPC 2013 Regional Programing Contest. 9th Place, WTF Team
- ACM-ICPC 2013 National Programing Contest. 11th Place. WTF Team
- Honor mention. Colombian Math Contest 2010
- Scholarship. Symposium ANTS X. San Diego, California. EEUU
- Early promotion at high school. 5th grade to 6th grade
- Early promotion at high school. 7th grade to 8th grade
- Honors Academic Excellence, 10 and 11 degree in the school
- National high school qualification exam ICFES. 4th place/group
- McDonald's drawing contest for schools. 1th Place 1997

References

- Phd. Andrés Sicard-Ramírez. asr@eafit.edu.co. Computer Science. EAFIT University
- Phd(c). Paola Lizarralde-Bejarano. dlizarra@eafit.edu.co. Mathematics. EAFIT University
- Phd. Camilo Argoty. argoty7@gmail.com. Mathematics. Sergio Arboleda University
- Phd. Esteban Hernández. Computer Science. eshernan@gmail.com Universidad Distrital de Bogotá.