Jan Alejandro Medina López

Curriculum Vitae

Personal data

Nationality Colombian

Birth 9th November, 1989.

Contact information

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Education

2017 - **Doctorate in Engineering**.

Place Pontificia Universidad Javeriana, Cali, Colombia.

Thesis "Joint Estimation of Formation Mechanisms in Heterogeneous Growing Networks"

Supervisor Jorge Finke.

2016 – 2018 Master in Engineering.

Place Pontificia Universidad Javeriana, Cali, Colombia.

Thesis "Estimating formation mechanisms and degree distributions in mixed attachment

networks"

Grade Mención Honorifica a la Excelencia.

2007 – **2014 Bsc. in Mathematics**.

Place Universidad del Cauca, Popayán, Colombia.

Thesis "Un criptosistema de clave pública tipo Knapsack basado en conjuntos B_h "

Academic positions

- 2016 2017 **Research assistant**, *Centro de Excelencia en Big Data y Data Analytics (CAOBA)*, Pontificia Universidad Javeriana, Cali.
- 2013 2015 **Research assistant**, *Álgebra, Teoría de Números y Aplicaciones: ERM*, Universidad del Cauca, Popayán.

Teaching experience

2015 – 2016 **Differential Calculus (course for Undergraduate students)**, School of Natural Sciences, Exact and Education, Universidad del Cauca.

Scholarships and awards

- 06.2017 Fellowship "Fortalecimiento de Capacidades de las Empresas de Base Tecnológica en TIC del Cauca para Competir en un Mercado Global".
- Reason Doctoral studies
 - Place Pontificia Universidad Javeriana Cali

Conference presentations

2014 **Álgebra, Teoría de Números, Combinatoria y Aplicaciones Altencoa 6**, San Juan de Pasto, Colombia.

El problema de la suma de un subconjunto y criptografía.

2014 **Álgebra, Teoría de Números, Combinatoria y Aplicaciones Altencoa 6**, San Juan de Pasto, Colombia.

Un criptoanálisis al criptosistema Chor-Rivest.

2013 International Conference on Applied Mathematics and Informatics (ICAMI), San Andrés Island, Colombia.

A knapsack-type public key cryptosystem based on B_h sets.

Computer skills

Basic JAVA, C, R, Linux

Intermediate PYTHON, Matlab, Mathematica, LATEX, Microsoft Windows

Publications

D H Bueno-Carreño and J A Medina López. Implementation of an algorithm to compute the strong apparent distance of bivariate codes. *Journal of Physics: Conference Series*, 1160:012012, 2019.

Jan A Medina, Jorge Finke, and Camilo Rocha. Estimating formation mechanisms and degree distributions in mixed attachment networks. *Journal of Physics A: Mathematical and Theoretical*, 52(9):095001, 2019.

Languages

Spanish Native tongue English Intermediate

Interests

- Electric Guitar
- Cooking
- Basketball

- Chess
- Soccer