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 and Applied Sciences**.

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