











# 3rd Seminar on Innovation, Science and Technology for Energy-Efficient Development: Green Buildings

## **Profile of Participants**

## **COUNTRY: COLOMBIA**

Name: Lucas Arango Díaz Nationality: Colombian

Current position: Teacher Researcher

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### **Small biography**

Lucas Diaz Arango was born in Medellin in May 1984. Studied architecture at the Universidad Nacional de Colombia, Medellin headquarters. He did his Master in Architecture and Urbanism with an emphasis on Environmental Behavior of Urban Spaces and Buildings at the Universidad Federal de Santa Catarina — UFSC, in Florianopolis, Brazil. Currently, he leads several researches related to the teaching methodology on bioclimatic in the design and bioclimatic performance of school environments workshop. Additionally, coordinates the formulation of the Master of Bioclimatic in the Faculty of the Universidad de San Buenaventura.

At the same time he participates as bioclimatic advisor in various architectural projects being developed in Medellin, Colombia.

#### Impact of their work of teaching and / or research

The impact of the work in the classrooms, which is evident in the bioclimatic quality of architectural projects presented in academic workshops of design, is linked to the capacity acquired by students to incorporate environmental premises since the early stages of the project process. Evidently, in the short and medium term, that evidence will move to occupation, where the positive impact that environmental thinking generates in architectural quality will result in fewer negative impacts on nature.

The understanding of the practice of Architecture and Construction as one of the current responsible for the negative impact that man has on nature and propose strategies to implement that allow, from the design, to mitigate problems and even fix them, has modified the project process that traditionally has been taught in the local schools of architecture. This modification involves including natural lighting, natural ventilation, energy efficiency, thermal performance, among others, in academic discussions generated in the design workshop. In turn, this inclusion generates high environmental quality projects, comfortable for people and energy efficient.

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