

# **Research Proposal for DAAD PhD scholarship**

## **The Gaseous Cosmic Web**

---

Sebastian Bustamante Jaramillo

### **Contents**

<b>1</b>	<b>General Information</b>	<b>2</b>
<b>2</b>	<b>Abstract</b>	<b>2</b>
<b>3</b>	<b>Introduction</b>	<b>2</b>
<b>4</b>	<b>Justification</b>	<b>2</b>
<b>5</b>	<b>Objectives</b>	<b>2</b>
<b>6</b>	<b>Literature and Research Review</b>	<b>2</b>
<b>7</b>	<b>Methods</b>	<b>2</b>
<b>8</b>	<b>Expected Results</b>	<b>2</b>
<b>9</b>	<b>Bibliography</b>	<b>2</b>
<b>10</b>	<b>Appendixes</b>	<b>2</b>
<b>11</b>	<b>Timetable</b>	<b>2</b>

# 1 General Information

## Information of the Applicant

<b>Name</b>	Sebastian Bustamante Jaramillo
<b>Degree</b>	B.Sc. in Physics, Universidad de Antioquia (2012)
<b>Position</b>	Adjunct Professor, Universidad de Antioquia
<b>Birthday</b>	20 <sup>th</sup> June, 1990
<b>Nationality</b>	Colombian
<b>ID</b>	C.C. 1128400433
<b>Address 1</b>	Avenida 21 # 57 AA 65, Bello - Colombia (personal)
<b>Address 2</b>	Calle 67 # 53 - 108, Medellin, Colombia (work)
<b>Phone</b>	+057 (4) 4820138
<b>Mobile</b>	+057 3108992409
<b>E-mail 1</b>	macsebas33 at gmail.com (personal)
<b>E-mail 2</b>	sebastian.bustamante at udea.edu.co (academic)

More detailed information of the applicant can be found here <http://goo.gl/BPZGzK>

## Information of the Project

<b>Title</b>	<b>The Gaseous Cosmic Web</b>
<b>Field</b>	Cosmology, Astrophysics, Physical Sciences
<b>Advisor 1</b>	Volker Springel, PhD. Heidelberg Institute for Theoretical Studies, Germany
<b>Advisor 2</b>	Jaime Forero-Romero, PhD. Universidad de los Andes, Colombia
<b>University</b>	University of Heidelberg, IMPRS PhD program
<b>Time Frame</b>	3 years

## 2 Abstract

## 3 Introduction

## 4 Justification

## 5 Objectives

## 6 Literature and Research Review

## 7 Methods

## 8 Expected Results

## 9 Bibliography

## 10 Appendixes

## 11 Timetable