

# Antoine Dumont Neira

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## PERSONAL INFORMATION

ID Number: 18.147.879-9  
Passport Number: P00053197  
Nationality: Chile  
Date of Birth: 08-08-1992  
Sex: Male  
Marital Status: Single

## EDUCATION

**University of Santiago (USACH)**, Estación Central, Santiago, Chile  
Bachelor of Science in Applied Physics . 2012 – 2015  
• GPA: 5.9 Second Best Graduated

**Liceo de Ciencias y Humanidades**, Pitrufquén, Chile  
Graduated from Secondary School 2011  
• GPA: 6.3

## RESEARCH EXPERIENCE

**University of Santiago (USACH)**, Departamento de Física.  
Supersymmetric Quantum Mechanics Mar 2014 – Oct 2014  
• Advisor: Dr Mikhail Plyushchay, email: mikhail.plyushchay@usach.cl

**University of Santiago (USACH)**, Physics Department.  
Non-Commutative Quantum Mechanics Dec 2014 – Sep 2015  
• Advisor: Dr Jorge Gamboa, email: jgamboa55@gmail.com

## ACADEMIC HONORS AND AWARDS

Maximum Score in Mathematics in the National University Entrance Exam (PSU) 2011

Full Scholarship 'Beca Puntaje Nacional' 2012 – 2015  
Scholarship offered by the University of Santiago de Chile due to my High Performance in the National University Exam (PSU)

## TEACHING EXPERIENCE

**University of Santiago de Chile**  
Assistant Professor in Linear algebra Mar 2014 – Aug 2015  
• Linear Algebra for first year students has the objective of training students in vectors and matrices in connection with the geometry in  $\mathbb{R}^2$  or  $\mathbb{R}^3$ , linear maps in  $\mathbb{R}^2$  or  $\mathbb{R}^3$  and some aspects of Complex Numbers and Group Theory.  
• Reference: Profesor Michael Yañez, email: michael.yanez@usach.cl

Teaching Assistant in Mathematical Methods for Physicists II Oct 2015 -Present  
• My task was to review contents such as Legendre polynomials and Legendre differential equation, Spherical Harmonics, Associated Legendre Function, Bessel functions and Bessel differential equation, Schrodinger equation and Laguerre polynomials, Wave Equation and Laplace Equation. .  
• Reference: Dr Lautaro Vergara, email: lautaro.vergara@usach.cl

## LANGUAGES

Mother Tongue: Spanish.  
Other Language: English  
Toefl Score 96

## TESTS SCORES

Toefl: total 96.  
• Reading 24  
• Listening 26  
• Speaking 23  
• Writing 23  
Physics GRE: 790  
• 69th Percentile

## SOFTWARE

L<sup>A</sup>T<sub>E</sub>X, MATLAB, Mathematica, OS X, Ubuntu linux.