

FABIAN CADIZ

Assistant professor at Ecole polytechnique

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PROFESSIONAL EXPERIENCE

Assistant professor

Physics department, Ecole polytechnique

Septembre 2017 – Palaiseau, France

- Teaching in the bachelor and engineering program
- Researcher at Laboratoire de Physique de la Matière condensée
- Spin physics of electrons in semiconducting materials

Postdoctoral researcher

Laboratoire de Physique et Chimie des Nano-Objets (LPCNO)

Octobre 2015 - Août 2017 Toulouse, France

- Quantum opto-electronics group
- Optical spectroscopy of 2D semiconductors
- Spin injection and detection in hybrid ferromagnetic metal/semiconductor systems

EDUCATION

PhD in physics

Ecole Polytechnique

Septembre 2012- Septembre 2015

- Thesis title: Spin dependent transport in semiconductors: a consequence of the Pauli principle.
- March-April 2014: ultrafast spectroscopy of semiconductors. Santa Clara University, California, Etats-unis.

Master in applied physics

Ecole Polytechnique

Septembre 2011- Août 2012

- Best GPA, nanophysics track
- Scientific project at Laboratoire Charles Fabry - Institut d'Optique.

Master in physics

Pontificia Universidad Católica de Chile

Septembre 2009- Août 2011

- Neutrino physics and supersymmetry.

Electrical engineer


Pontificia Universidad Católica de Chile


Mars 2005- Août 2011


- 2010: 3rd year of Ingénieur polytechnicien program (Ecole Polytechnique), promotion X2007.

AWARDS AND DISTINCTIONS

 **Funding ANR Jeune chercheur 2018**
Projet SpinCAT, 2019-2023

 **Thesis prize of Ecole Polytechnique 2016**
15 prizes among 154 candidates

 **Gaspard Monge fellowship**
2012-2015, doctoral fellowship for outstanding candidates.


 **French government and Saint Gobain chaire**
2011-2012, scholarship for master studies in France.

 **Bourse CONICYT**
Master scholarship funded by the Chilean government.

PUBLICATIONS

 **33 published articles (ResearcherID: O-1683-2017)**
in journals such as Nano-Letters (impact factor 12.712), Nature communications (impact factor 11.3), 2D Materials (impact factor 9.611), Physical Review X (impact factor 8.701), Physical Review Letters (impact factor 7.645), Optica (impact factor 5.2), Physical Review Applied (impact factor 4.061), Physical review B (impact factor 3.71), Applied physics letters (impact factor 3.14).

Complete list
<http://fabiancadiz.com/index.php/publications>.
h-index = 17 (Google scholar), 15 (Web of Science)

 **Books**

- F. Cadiz, A. Couairon (2020), *Electromagnetism and light*, Palaiseau, France
- F. Cadiz (2016), *Electromagnetismo*, Santiago, Chile
- F. Cadiz, S. Hevia, S. Reyes (2013), *Mecanica Clasica*, Pontificia Universidad Catolica, Santiago, Chile