

# Yonnhatan Garcia Cartagena

Physics professor at UMCE

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## Academic Formation

### **Universidad de Buenos Aires (UBA), Argentina. 2015**

- PhD © in Didactic of Physics. Thesis in process.

### **Universidad Tecnológica Metropolitana (UTEM), Chile. 2014**

- Diploma in Nuclear Technology. Postgraduate obtained with honors.

### **Universidad de Buenos Aires (UBA), Argentina. 2009**

- Master in Policy and Management of Science and Technology. Degree obtained with honors.

### **Universidad Metropolitana de Ciencias de la Educación (UMCE), Chile. 2003**

- Physics Teacher. Professional title obtained with honors.

### **Universidad Metropolitana de Ciencias de la Educación (UMCE), Chile. 2002**

- Degree in Science Education, Physics and Natural Science. Obtained with honors.
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## Experience (last 5 years)

### **Associate Professor at Department of Physic. Universidad Metropolitana de Ciencias de la Educación (UMCE). Chile.**

Research, Outreach and Teaching related with preservice Teachers in Physics and Technology. Since March 2005.

- 2014-2016. Researcher. "Improvement Plan for scientific competencies applied to Initial Teacher Training based on the model of Scientific Inquiry". MECESUP, UMC1302 project.
- 2014-2016. Researcher. "Methodologies strategies for interactive whiteboard curriculum integration teaching model". DIUMCE, 14-10 FIE project.
- 2013-2015. Researcher. "Integrated Science: A proposal to support formal Education Sciences in the levels of 1st to 4th of General Basic Education". CONICYT, FONDEF CA12i10075 project.
- 2012-2014. Researcher. "Study of the skills of scientific literacy from affordable educational robotics". DIUMCE, 04-12 FIBE project.
- 2011. Director. "Seminar of Science Teacher Education and Professional Practices". Outreach project UMCE.

- 2010-2012. Researcher. "Development and pedagogical implementation of interactive whiteboards low cost". DIUMCE, 04-10 FIBE project.

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## Publications (last 5 years)

- (2014). Development of scientific skills in the initial training of teachers of science and mathematics. *Educacion y Educadores*. ISSN: 0123-1294, e-ISSN: 2027-5358. Vol.17 No.2, p. 271-285. Colombia.
  - (2013). Educational robotics and its potential in the development of skills associated with scientific literacy. *Educacion y Tecnologia*. ISSN: 0719-2495. No.2. p. 42-55. Santiago de Chile.
  - (2012). [Book] e-Science in Chile: Diagnosis, Evaluation and Proposals for a national plan. Editorial Academica Española EAE. ISBN 978-3-8443-4729-6
  - (2012). Digital Interactive Whiteboards in the classroom: styles and main factors affecting their adoption. *Educacion y Tecnologia*. ISSN: 0719-2495. No. 1, p. 69-81. Santiago de Chile.
  - (2011). Interactivity and whiteboards in training areas, in: Garzón R. et al. (Eds.). *Information and communications technology in education: contributions from the Latin American perspective*. Editorial Tuxtla Gutierrez. UNACH. ISBN: 978-607-80003-92-1. p. 203-215. Mexico.
  - (2010). Las ciencias positivas, su presunta superioridad y aspiración a la universalidad. *Revista Contextos*. ISSN: 0717-7828. Year XII No. 23, p. 165-170. Santiago de Chile.
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