

### **Biosketch**

Name, Surname: **MIREZ Tarrillo, JORGE Luis.**

**Position:** PhD Physics. National University of Engineering (UNI). Lima – PERU.

**Profile:** My research is focalized in complex system (physical/biological). Actually, development research in optimization, management and control in scenarios different for microgrid direct current.

### **Education/training**

<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
National University of Engineering, Lima, Peru / Aalborg University, Aalborg, Denmark.	PhD	2012 - current	Physics: Microgrid Electrical Direct Current
National University of Engineering, Lima, Peru	MSc	2011	Physics: Microgrid Electrical
National University “Pedro Ruíz Gallo”, Lambayeque, Peru.	Professional	2003	Mechanical Electrical Engineering
National University “Pedro Ruíz Gallo”, Lambayeque, Peru.	B.A.	1998	Mechanical Electrical Engineering

### **Traning, Positions and Honors**

#### **Positions and Employments**

2011 – 2014	Professor. Courses: Control Theory; Heat Transfer and Fluid Mechanics, Electromagnetism. Physical Engineering Department. Faculty of Sciences. National University of Engineering. Lima, Peru.
2011- 2013	Professor. Courses: Renewable Energy; Heat Transfer and Thesis Seminary. Mechanical and Electrical Engineering Department. Universidad Nacional Tecnológica del Cono Sur de Lima. Lima, Peru.
2011- today	Engineer. Support Biomedical and Electromechanical Office. National Hospital “Cayetano Heredia”. Ministry of Health of Peru. Lima, Peru.
2008 - 2011	Researcher. Center of Information and Communications Technology. National University of Engineering. Lima, Peru.
2010.	Professor. Courses: Mathematics I, Basic Mathematics I. Civil Engineering Department and Mines Engineering Department. “Alas Peruanas” University. Chota, Peru.
2003 - today	Chairman of Science Association of Chota. <a href="http://www.geocities.ws/achc_chota/">http://www.geocities.ws/achc_chota/</a>
2000 - 2010	Engineer. Maintenance Office. Hospital “José Soto Cadenillas”. Ministry of Health of Peru. Chota, Peru.

#### **Award, Honors:**

2011	First Place in the Area of Science - MSc. V National Contest Graduate Thesis Masters and Doctorate. National Assembly of Rectors (Asamblea Nacional de Rectores - ANR). Peru.
2003	Collaborator. National Center for Applied Electromagnetism - CNEA. University of Oriente. Santiago de Cuba, Cuba.

### Scientific production

- J. Mírez, J. Tristá. “Dissolved Movement of Ions and pH Regulation in a Substance Aqueous under a Magnetic Field Constant”. Tecnología Química. Special Edition 2001. ISSN 00418420. Cuba.
- 11 invited talks (less than 5 years old)

### Relevant Academics Activities

- Commander Crew 140 in Mars Desert Research Station – MDRS of Mars Society, Utah. USA. April 12 - 27, 2014. <http://desert.marssociety.org/home/crew-140>
- Member of the Crew 141 in Mars Desert Research Station – MDRS of Mars Society, Utah. USA. April 28 – May 10, 2014. <http://mdrs141.weebly.com/>
- January – April 2013. “Mathematics of Bio-Economics”. Institut Henri Poincaré – <http://www.ihp.fr>. Paris, France. <http://cermics.enpc.fr/~delara/MABIES/MABIES/>
- June 2012. Oral Presentation. “Modeling and Simulation of Microgrid DC with Solar and Wind Power, Storage, Electric Load Residential in Matlab/Simulink”. 2nd Global Discovery Alternative & Sustainable Energy Systems Workshop (<http://globaldiscoveryworkshop.unt.edu>). North Texas University. Denton, Dallas, Texas, USA.
- April 2012. Poster with Jorge Taramona and Jorge García. “GPS Positioning Data Analysis and Its Relation to Equatorial Ionospheric Anomalies”. 13<sup>th</sup> International Symposium on Equatorial Aeronomy (ISEA). (<http://jro-app.igp.gob.pe/isea13/index.php?pag=home>).
- 2011. First Workshop Iberoamerican of Nanosatellites. National University of Engineering. Lima, Peru.
- 2010. Summer Course in Physics. Institute of Physics (<http://www.if.usb.br>). University of Sao Paulo (<http://www.usp.br>). Sao Paulo, Brasil.
- April 2002. Oral Presentation. “Advances in Theory of the Magnetic Treatment of Water and Desing of Bipolar Magnetic Equipment using Numeric Simulation with Software FEMM 3.1”. International Congress on Quality Assessment of Numerical Simulations in Engineering QUANSE 2002. Universidad de Concepción – Chile (<http://www.udec.cl>) y Aerspatial Laboratory of Liege – Belgium. Concepción - Chile.

### Skills

- Matlab/Simulink.
- Admin in Matlab Group Facebook’s: <http://www.facebook.com/groups/52442552232/> (more of 35,847 members, the world's largest in Facebook)
- Experience in maintenance, evaluation and repair of equipment in saturated steam systems (100 psi), electrical systems in low voltage and biomedical equipment.
- Admin blogs: Matlab/Simulink in Renewable Energy <http://jmirez.wordpress.com>; Blog from Magnetic Treatment of Water <http://jmirezwater.wordpress.com>; Matlab/Simulink in Control Theory <http://jmirezcontrol.wordpress.com>; Matlab/Simulink in Mathematics <http://jmirezmath.wordpress.com>; Blog about Medical Equipment <http://jmirezmedical.wordpress.com>; Blog about Personal Motivation <http://jmirezmotivational.wordpress.com>; Blog of Matlab in Economics <http://jmirezeconomics.wordpress.com>