

María Florencia Noriega Romero Vargas

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PERSONAL INFORMATION

Gender: Female
Date of birth: January 21th, 1986
Place of birth: Ensenada, Baja California, México

EDUCATION

- 2010–2012 **M. Sc. in Physics** at Instituto de Física, Universidade Federal Fluminense.
Dissertation title: “Efeitos da Sobrepopulação Macromolecular no Metabolismo Celular”
Supervisor: Dr. Márcio Argollo
- 2005–2010 **B. Sc. in Physics** at Universidad Nacional Autónoma de México.
Score: 9.06 (of a total of 10).
Dissertation title: “Detección Homodina con Resolución de Número de Fotones”
Supervisor: Dr. Eduardo Nahmad

SCHOLARSHIPS

- 2012– present **Coordenação de Aperfeiçoamento de Pessoal de Nivel superior, Brazil.**
- 2010–2012 **Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil.** (Master fellowship)
- 2008–2010 **Sistema Nacional de Investigadores, México** (Research assistant)
- 2009 **Programa de Fortalecimiento a la Mujer Universitaria, México** (Financial Support)

PUBLICATIONS

A. Fajardo-Peralta, F. Noriega Romero-Vargas, J. C. Rosas-Bonilla, J. L. Torres-Mayorga, J. Mata, J. M. Siqueiros, **Characterization of Polycrystals of STO Doped with Europium: $\text{Sr}_{1-x}\text{Eu}_x\text{TiO}_3$.** *Integrated Ferroelectrics*, 101:114-129, 2008.

Hendrik B., Coldenstrodtt-Ronge, Graciana Puentes, Offir Cohen, Florencia Noriega, Xiaodan Yang, Jeff S. Lundeen, Animesh Datta, Lijian Zhang, Brian J. Smith, Martin B. Plenio, and Ian A. Walmsley. **Complete Characterization of Weak-Homodyne Photon-Number-Resolving Detectors: Applications to Non-Classical Photonic State Reconstructions.** *Quantum Electronics and Laser Science Conference (QELS)* San Jose, CA May 16, 2010 Photodetection in Quantum Communication (QThD)

INTERNSHIPS

Clarendon Laboratory, University of Oxford, U.K.

Two months experimental work in quantum optics at Prof. Ian Walmsley laboratory. Summer of 2009.

WORKING EXPERIENCE

- 2008 Professor Assistant in the class “Topología y geometría Diferencial para Físicos”, at UNAM, México.
- 2009 Professor Assistant in the class “Temas Selectos de Física Matemática y Teórica”, at UNAM, México.
- 2011 Tutor of first semester undergrad physics students, at the Federal Fluminense University, Brazil.

WORK IN PROGRESS

Florencia Noriega, Dr. Márcio Argollo de Menezes and Dr. Alexei Vazquez
Effects of the limited solvent capacity in cellular metabolic networks

CONTRIBUTIONS TO CONFERENCES

- [P1] Florencia Noriega, Marcio Argollo, Alexei Vazquez **Poster: Impact of the Solvent Capacity Constraint on Cellular Metabolism.** *Perspectives and Challenges in Statistical Physics and Complex Systems for the Next Decade: A Conference in Honor of Eugene Stanley and Liacir Lucena Natal*, Brazil (2011).
- [P2] J. Mata, Juan Carlos Rosas-Bonilla, José Luis Torres-Mayorga, Florencia Noriega Romero-Vargas, Alejandro Fajardo Peralta, A. Durán, J. Heiras, J.M. Siqueiros, **Poster: Caracterización de policristales de SBT dopados con Europio XLVIII Congreso de la Sociedad Mexicana de Física**, San Luis Potosi, México (2006).

ATTENDANCE TO CONFERENCES AND SCHOOLS

- 2011 Congress “Perspectives and Challenges in Statistical Physics and Complex Systems for the Next Decade: A Conference in Honor of Eugene Stanley and Liacir Lucena”, Brazil.
- 2010 School “Escola de Computação e Modelagem Computacional”, Brazil.
- 2009 Annual meeting of the Mexican quantum information division, “2a Reunión Anual de la División de Información Cuántica”, México.
- 2007 Summer School in physics, “XV Escuela de Verano en Física”, México.
- 2006 Annual meeting of the Mexican Physical Society, México.

LANGUAGES

Spanish (native), English, Portuguese (fluent).

PROGRAMMING SKILLS

Intermediate knowledge of C, Perl, Octave, Gnuplot, Grace, Pajek.

PARTICIPATION IN SCHOOL COMMITTEES

- 2005 Coordinator of Artistic and Cultural Activities of the Student Society of the Science Faculty at the Baja California Autonomous University.

POPULAR SCIENCE

- 2005 Presentation about the center of mass at the science fair of Universidad Autónoma de Baja California

REFERENCES

Dr. Márcio Argollo Ferreira de Menezes
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