

Contact

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Experience

2016-present **Research assistant**, *Inria-Paris Research Center, Team QUANTIC*, France.

April-June 2018 **Visiting PhD student**, *Institut Henri Poincaré, trimester on quantum measurement and control*, France.

2012-2014 **Software engineer**, *Nuxiba Technologies*, Mexico City.

Education

2016-present **PhD candidate, Applied Mathematics**, *École des Mines de Paris*, France.

Advisors: Pierre Rouchon, Alain Sarlette (Inria-Paris)

2014-2016 **MSc, Systems and Control**, *CINVESTAV - Instituto Politécnico Nacional*, México.

Advisor: Jorge A. León

2008-2012 **Engineering Diploma**, *Instituto Tecnológico de Orizaba*, México.

Publications

2018 Exponential stochastic stabilization of a two-level quantum system via strict Lyapunov control. *With Alain Sarlette and Pierre Rouchon*. 57th IEEE Conference on Decision and Control. *Preprint arXiv:1803.07542*

2017 Control de sistemas cuánticos abiertos. Chapter in "Modelos en Estadística y Probabilidad IV", Aportaciones Matemáticas, Serie Comunicaciones 51, pp. 109-138, ISBN: 978-607-02-9909-4.

Talks

2018 'Using noisy quantum feedback for exponential stabilization of quantum states', International Conference on Quantum Computation (ICoQC 2018). École Normale Supérieure Paris

2016 'Control of open quantum systems', Talk given at Analysis Seminar. Universidad Autónoma Metropolitana - Iztapalapa

Grants and Scholarships

2016-2019 Allocation doctorale de Mines ParisTech.

2014-2016 CONACYT Master scholarship.

Additional Information

Personal information Born on 21/02/1990, Mexican

Languages Spanish (Native), French (Fluent), English (Fluent), Italian (Basic skills) and Japanese (Basic skills).