Curriculum Vitae

MILAJIGULI MILAJIGULI

Education

12/2016 – 3/2020	School of Advanced Studies, University of Camerino, Italy Thesis: Quantum Estimation with Constraints Advisor: Prof. Stefano Mancini **Degree:** Ph. D. in Mathematics (*excellent*)
11/2013 – 4/2016	School of Science & Technology, University of Camerino, Italy Thesis: On The Estimation of Quantum Channels with Environment Assistance Advisor: Prof. Stefano Mancini **Degree:** Master in Applied Mathematics (*104/110*)
9/ 2001 – 7/2005	Department of Mathematics, Beijing Normal University, China Thesis: Regression Analysis on the Life Quality of the Residence in Xinjiang Advisor: Li yong **Degree:** B. Sc. in Statistics

Work Experience:

- 08/2020 – Present
  Postdoctoral researcher Department of Mathematics and Physics, School of Science & Technology, University of Camerino, Italy
  Research interest: Quantum estimation and discrimination theory, characterization of quantum states, statistical data analysis.
- 08/2006 – 10/2013
  Lecturer Department of Mathematics and Physics, Xinjiang Agricultural University, Urumqi, China
  Courses taught: Calculus, linear algebra, probability theory & statistics, multivariate statistical analysis: ANOVA, regression, clustering, classification, and principal component analysis.

Publications:

1. M. Rexiti, L. Memarzadeh and S. Mancini, *Discrimination of dephasing channels,* Journal of Physics A Mathematical and Theoretical **55,** 245301 (2022);
2. M. Rexiti, S. Mancini, *Discriminating qubit amplitude damping channels,* Journal of Physics A Mathematical and Theoretical **54**, 165303 (2021);
3. M. Rexiti, S. Mancini, *Quantum estimation through a bottleneck,* Quantum Information Processing **19**, 10 (2020);
4. *M. Rexiti, S. Mancini, Adversarial versus cooperative quantum estimation,*

Quantum Information Processing **18**, 102 (2019);

5. M. Rexiti, D. Felice, S. Mancini*, The Volume of Two-Qubit States by Information Geometry,* Entropy, **20**, 146 (2019);

6. M. Rexiti, S. Mancini*, Estimation of two-qubit interactions through channels with environment assistance,* International Journal of Quantum Information **15**, 1750053 (2017);

7. M. Rexiti, S. Mancini*, Privacy in quantum estimation, Proceedings **12**, 13 (2019);

Conferences & Workshops Attended

Oral presentations

1. Quantum 2020, Workshop of the INFN research network "Quantum – finite and infinite quantum systems ", 06/2/2020 – 07/2/2020, Bologna, Italy.

Poster presentations

1. 12th Italian quantum information science conference (9 – 11 September 2019), Milan, Italy;

2. Quantum 2019 (26 May – 1 June 2019), Turin, Italy;

3. Workshop on Ubiquitous Quantum Physics: the New Quantum Revolution at the ICTP (18 – 01 March 2019), Trieste, Italy;

4. World Quantum Physics Congress (10–13 December 2018), Stockholm, Sweden;

5. 11th Italian quantum information science conference (9 – 11 September 2018), Catania, Italy;

Language Skills

Mother Tongue:	Uyghur
Other:	Chinese Mandarin (Fluent)
	English (Good) Italian (B1)

Highlights of Qualifications

Computer Skill

Languages:	Mathematica, MATLAB, Python, R, SQL.
Packages:	SAS, SPSS, S-PLUS,
Systems:	MS-Windows.

- **In Progress**: IBM Data Science Professional Certificate