

Curriculum Vitae

MILAJIGULI MILAJIGULI

Research Interest

Quantum estimation and discrimination theory, characterization of quantum states, statistical data analysis.

Education

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| 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 |
| 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 |
| 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:

- ◆ **Lecturer** Department of Mathematics and Physics, Xinjiang Agricultural University 08/2006 – 10/2013
Courses taught: Calculus, linear algebra, probability theory & statistics, multivariate statistical analysis.

Publications:

SCI journals

1. M. Rexitì, S. Mancini, *Quantum estimation through a bottleneck*, submitted to the journal Quantum Information Processing, [arXiv:1909.03274v2](https://arxiv.org/abs/1909.03274v2);
2. M. Rexitì, S. Mancini, *Adversarial versus cooperative quantum estimation*, Quantum Information Processing **18**, 102 (2019);

3. M. Rexiti, D. Felice, S. Mancini, *The Volume of Two-Qubit States by Information Geometry*, Entropy, **20**, 146 (2019);
4. M. Rexiti, S. Mancini, *Estimation of two-qubit interactions through channels with environment assistance*, International Journal of Quantum Information, **15**, 1750053 (2017);

Other journals

1. M. Rexiti, S. Mancini, *Privacy in quantum estimation*, Proceedings **12**, 13 (2019);
2. Jialiexi, Milajiguli, *Quantitative analysis of glucose, fructose and xylose in honey by multivariate calibration methods*, Chinese Journal of Analysis Laboratory **09** (2011);
3. Jialiexi, Milajiguli, *Determination of phenols in water by UV-spectrometer with partial least square*, Xinjiang Agricultural Sciences **10** (2010);
4. N. Aili, Milajiguli, D. Tuerhan, *Factors influencing the teaching quality of minority-student classes in universities: from teaching the advanced mathematics prospective*, Journal of Xinjiang Agricultural University 02 (Uyghur) (2010);
5. N. Aili, Milajiguli, D. Tuerhan, *An empirical study about living quality of inhabitant in west China*, Journal of Xinjiang Agricultural University **05** (2009);

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 (A2)

Highlights of Qualifications

Computer Skill

Languages: Pascal, C.
 Packages: Matlab, Mathematica, SAS, SPSS, R, S-PLUS,
 Systems: DOS, MS-Windows.