

JORGE LUIS ROMEU, PH.D.

201 Rugby Road
Syracuse, NY 13203

Email : romeu@cortland.edu
Web Page: <https://web.cortland.edu/romeu/>

Technical Areas:

Statistics: Reliability Modeling/Data Analysis; Multivariate Analysis; Experimental Design; SPC
Operations Research: Simulation Modeling and Analysis; System Optimization and Evaluation
Education & Training: Curriculum and Tutorial Development and Teaching; Distance Education

Education/Certifications:

Syracuse University, Ph.D. 1990 (Industrial Engineering and Operations Research)
University of Havana, Cuba, Licenciado (MS) 1973 (Mathematical Statistics)
Chartered Statistician Fellow, Royal Statistical Society (Professional Status)
Certified Reliability Engineer, American Society for Quality (ASQ/CRE)
Certified Quality Engineer, American Society for Quality (ASQ/CQE)

Relevant Work Experience:

1. Wrote applied statistics textbook covering Distributions Id, Confidence/Tolerance Intervals, Hypothesis Testing, Multiple Regression and Analysis of Variance (ANOVA), with practical engineering examples..
2. Wrote over two dozen Web Tutorials on Reliability, SPC and Statistical Applications in Industry.
3. Applied Multivariate Distributions to Pattern Recognition methods in radar (clutter) studies.
4. Developed Statistical System for Sensor, Analysis, Id, Decision and Control using SPC methods.
5. Modeling and performance evaluation of telephone centers via ARENA/Call-Sim simulation.
6. Developed Discriminant Analysis for the identification and selection of key Covid-19 factors.
7. Developed Time Series Analysis in the modeling and forecasting of Covid-19 performance data.
8. Developed DOE Models for screening and selection of best engineering & Covid-19 designs.
9. Reliability and Markov Chain Modeling and analysis of Covid-19 data for vaccination studies.
10. Developed/Taught Reliability/Industrial & Quality Statistics Short Course for practicing engineers.

Employment History:

Adjunct Professor of Statistics & Operations Research Syracuse University, NY (1998-Present)

Teach Industrial Statistics and Quality Engineering graduate courses and help write the PhD Qualifying exams, for the Manufacturing Engineering Program of the Mechanical and Aerospace Engineering (MAE) Department.

Fulbright Speaker Specialists Program Senior Speaker Specialist (2001 – Present)

Romeu was approved as a Fulbright Program Senior Speaker Specialist in 2001 and was renewed in 2013. He has taken assignments of up to six weeks each, in Statistics Education in the Dominican Republic (twice in 2004), and in Xalapa, Mexico (2003). He taught DOE in Quito, Ecuador (2006), and has trained, via videoconferences, for Thailand. Romeu won an assignment in Cucuta, Colombia, in May/June of 2020, cancelled due to the Covid-19.

Independent Consultant in Quality and Statistics Engineering (2010 - Present)

Teach short courses on Quality Engineering and Industrial Statistics to Latin American engineering faculty, in NYC.

Research Professor of Statistics & Operations Research Syracuse University, NY (2003 - 2019)

Submitting proposals to NSF, AF and other agencies on Engineering Education and Applied Statistics research for the Mechanical and Aerospace Engineering Department. Won several AF summer and research grants.

Sponsored Research (2011-2012) and Adjunct Professor (2012-2017) SUNY Polytechnic Institute, Utica NY.

Develop faculty research and scholarship abilities, proposal writing, and monthly Lecture Series, student research days, inter-campus collaboration, etc. Develop a network of Sponsored Research specialists throughout SUNY Campuses. As **Adjunct Professor**, Romeu taught undergraduate and graduate optimization courses for management

Senior Advisor, Quanterion Solutions/QSI Inc. (2007 - 2013)

QSI was the day-to-day operator of RAC/RIAC (Reliability Analysis Information Center), a DOD Project dedicated to providing quality, reliability and continuous improvement support to the US Air Force and other DOD branches. Romeu developed tutorials on industrial statistics, taught short courses on industrial statistics, wrote proposals for government and industry, and advised on reliability, quality & continuous improvement projects.

Senior Engineer: IIT Research Institute/Alion Sciences, Rome, NY (1998 - 2007)

Senior technical advisor for statistical and reliability modeling and data analysis for the Reliability Analysis Center (RAC) and the Advanced Materials and Processing Technology Information Analysis Centers (AMPTIAC). Romeu has supported government and commercial customers in modeling applications, simulation and industrial statistics techniques. Romeu wrote a statistics textbook and developed its related reliability engineering short course, that he taught repeatedly around the country, using said textbook and two dozen web tutorials he developed for the RAC.

Associate Professor of Statistics State University of New York at Cortland (1985-1998). Emeritus (1999+)

Romeu taught Statistics, Computer Science and Mathematics, and was a member of the Graduate Faculty. He also performed research in statistics education, simulation and Monte Carlo studies. He developed several new courses and created an international education project. For his research and scholarly publications, he obtained a **Drescher Award** (1989), a **Fulbright** (1994), and several government and SUNY grants. Romeu **retired Emeritus in 1998**.

Senior Fulbright-Garcia Robles Scholar Instituto Tecnológico Autonomo de Mexico, ITAM (1994)

During his Fulbright in Mexico, Romeu taught senior level Discrete Event Simulation, Modeling and Analysis, General Statistics and presented faculty development seminars at three other institutions, covering the teaching of statistics with simulation. ITAM is considered the best school of economics in Mexico and second in Latin America.

Research Statistician IIT Research Institute, IITRI (1982 - 1985)

Statistical and reliability modeling and data analysis of hardware and software for DACS (Data Analysis Center for Software) and RAC (Reliability Analysis Center). Short course instructor “Reliability Statistics for Engineers”.

Selected Awards and Honors:

- Director, Region II (NY & PA), American Society for Quality (2014-16);
- Mohawk Valley Engineering Exec. Council, Engineering Development Award (2002 and 2012)
- Saaty Award for best Statistics paper in the Amer. Jour. Math. & Man. Sci. AJMMS, (1997, 2003)
- Chartered Statistician Fellow (Professional License), Royal Statistical Society (1993).

Past/Present Relevant Professional Affiliations:

- Fellow of The Institute of Statisticians (UK Professional Society.)
- American Society for Quality. ASQ; Senior Member; Past Director, Region II
- ASQ Certified Quality and Reliability Engineer.
- American Statistical Association. ASA. Senior Member (since 1981).

Selected Publications:

- Over two dozen statistics papers, available in the web: <http://web.cortland.edu/romeu/urIstats.html>
- Director, Qual., Rel. & Cont. Improvmt. Institute Web Page: <http://web.cortland.edu/romeu/QR&CII.htm>
- On the Statistical Education of American Engineers. The Journal of The RIAC. August 2012. Available in the Web: <http://web.cortland.edu/romeu/StatEdAmerEng2012Q2-art3.pdf>
- On Operations Research & Statistical Techniques. Amer. Jour. of Math & Mgmt. Sciences, 26 (3&4). pp 293-328. <http://web.cortland.edu/romeu/ORStatTechInDataMine.pdf> .
- Commented Summary of a Year of Work in Covid-19 Statistical Modeling. ResearchGate Web Site. <https://www.researchgate.net/publication/349008991> Commented Summary of a Year of Work in Covid-19 Statistical Modeling

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