

Abdel-Salam G. Abdel-Salam Ph.D., MBA, CStat, PStat®

Associate Professor of Statistics, Department of Mathematics and Statistics, College of Arts and Sciences, Qatar University, Doha, Qatar · Affiliate Professor, Virginia Commonwealth University, USA

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Statistician working on statistical process monitoring, profile monitoring and robust semiparametric modelling, with applications in public health, medicine, education, economics and industry. Author of 80 journal articles and four books; 2,137 Google Scholar citations, h-index 23 (October 2026). Editor-in-Chief of the *Journal of Statistics Applications & Probability* since 2014.

Appointments

2019 – present	Associate Professor of Statistics , Department of Mathematics and Statistics, Qatar University
2017 – present	Affiliate Professor , Virginia Commonwealth University, USA
2018 – 2023	Head, Student Data Management Section, Student Affairs Sector, Qatar University
2015 – 2018	Coordinator, Statistics B.S. and M.S. Programs, College of Arts and Sciences, Qatar University
2014 – 2019	Coordinator, Statistical Consulting Unit, College of Arts and Sciences, Qatar University (more than 350 research clients)
2013 – 2019	Assistant Professor, Department of Mathematics, Statistics and Physics, Qatar University
2011 – 2013	Assistant Vice President , Mortgage Banking Modeling and Forecasting / Business Banking Risk Management, JPMorgan Chase & Co., Columbus, Ohio, USA
2010 – 2011	Visiting Assistant Professor, Department of Statistics, Oklahoma State University, USA
1998 – 2010	Assistant Lecturer (1998–2005) and Assistant Professor (2010), Faculty of Economics and Political Science, Cairo University; Teaching Assistant and Instructor (2005–2010) and Senior Consultant, Laboratory for Interdisciplinary Statistical Analysis (2006–2010), Virginia Tech

Education and qualifications

2009	Ph.D. in Statistics , Virginia Tech, USA. Dissertation: <i>Profile Monitoring with Fixed and Random Effects using Nonparametric and Semiparametric Methods</i>
2006	M.Sc. in Statistics (Applied Statistics), Virginia Tech, USA
2004	M.Sc. in Statistics (Operations Research), Faculty of Economics and Political Science, Cairo University, Egypt
1998	B.Sc. in Statistics with a minor in Economics, Faculty of Economics and Political Science, Cairo University, Egypt
2023	Master of Business Administration (MBA), with distinction, College of Business and Economics, Qatar University
2018	Accredited Professional Statistician (PStat®), American Statistical Association, USA (October 2018)
2018	Chartered Statistician (CStat), Royal Statistical Society, UK (April 2018); Fellow of the RSS since 2017
2024	Harvard–Qatar University Faculty Fellowship (May 2024)

Research interests

Profile monitoring and control charts · prospective public health surveillance · robust, nonparametric and semiparametric regression · linear and nonlinear mixed models · exploratory and robust data analysis · economic capital models and forecasting · biostatistics · machine learning for education and health data.

Selected publications

1. **Abdel-Salam G. Abdel-Salam**, & Ahmad, I. A. (2025). Nonparametric functions estimation using biased data. *Mathematics*, 13(24), 4037. doi:10.3390/math13244037
2. **Abdel-Salam G. Abdel-Salam**, Boone, E. L., & Ghanam, R. (2024). Multivariate techniques for monitoring SEIRD and vaccination model parameters for the COVID-19 pandemic for Qatar. *International Journal of Environmental Research and Public Health*, 21(12), 1580. doi:10.3390/ijerph21121580
3. El-Horbaty, Y. S., & **Abdel-Salam G. Abdel-Salam** (2024). An ANOVA-based test for random effects in a nonlinear mixed model using a Monte Carlo permutation procedure. *Journal of Statistical Computation and Simulation*, 94(13), 2976–2991. doi:10.1080/00949655.2024.2362409
4. Jones, C. L., **Abdel-Salam G. Abdel-Salam**, & Mays, D. A. (2023). Novel Bayesian CUSUM and EWMA control charts via various loss functions for monitoring processes. *Quality and Reliability Engineering International*, 39, 164–189. doi:10.1002/qre.3229
5. Boone, E. L., **Abdel-Salam G. Abdel-Salam**, Sahoo, I., Ghanam, R., Chen, X., & Hanif, A. (2023). Monitoring SEIRD model parameters using MEWMA for the COVID-19 pandemic with application to the State of Qatar. *Journal of Applied Statistics*, 50(2), 231–246. doi:10.1080/02664763.2021.1985091

6. Hammoudi Halat, D., **Abdel-Salam G. Abdel-Salam**, Bensaid, A., Soltani, A., Alsarraj, L., Dalli, R., & Malki, A. (2023). Use of machine learning to assess factors affecting progression, retention, and graduation in first-year health professions students in Qatar. *BMC Medical Education*, 23, 909. doi:10.1186/s12909-023-04887-w
7. **Abdel-Salam G. Abdel-Salam**, Ismail, R., Rhouma, M., Elatawneh, A., Al Hazaa, K., & Romanowski, M. H. (2023). Using grades in core curriculum chain courses as predictors of academic performance in subsequent courses. *SAGE Open*, 13(4). doi:10.1177/21582440231206631
8. Nassar, S. H., & **Abdel-Salam G. Abdel-Salam** (2021). Semiparametric MEWMA for Phase II profile monitoring. *Quality and Reliability Engineering International*. doi:10.1002/qre.2829

Books

- **Abdel-Salam G. Abdel-Salam**, & Birch, J. B. (2026). *Exploratory and Robust Data Analysis: A Modern Applied Statistics Guide Using SPSS and R*. Chapman & Hall/CRC. doi:10.1201/9781003565321
- Verma, J. P., & **Abdel-Salam G. Abdel-Salam** (2019). *Testing Statistical Assumptions in Research*. Wiley. ISBN 978-1119528418
- **Abdel-Salam G. Abdel-Salam** (2025). *Data and Simplified Statistical Analysis for Applied Sciences* (in Arabic). Al-Arabi Publishing & Distribution, Cairo. ISBN 978-9778911596
- **Abdel-Salam G. Abdel-Salam** (2025). *Advanced Statistical Analysis Guide for Applied Sciences, Part II* (in Arabic). Al-Arabi Publishing & Distribution, Cairo. ISBN 978-9778911602

Funded research

25 funded projects as Principal Investigator, Lead PI or Co-Lead PI, from the Qatar National Research Fund, Qatar University and Hamad Medical Corporation. Recent examples:

- Assessing the Impact of AI Tools on Undergraduate Students' Academic Performance (QNRF UREP31-078-5-015, 2025–26, Lead PI)
- Application of Big Data to Improve Qatar Rail's Planning and Operations (QU Collaborative Grant, 2024–26, PI)
- Speculating Student Performance and Satisfaction in Online Learning During a Pandemic (QNRF RRC02-0825-210045, 2022–23, PI)
- Cardiac Surgery Performance Monitoring via Control Charts (QNRF UREP20-070-1-015, 2017–18, Lead PI)

Graduate supervision

11 completed theses (8 M.Sc., Qatar University; 3 Ph.D., including 2 at Virginia Commonwealth University) and 1 M.Sc. thesis in progress, mainly on profile monitoring, control charts, missing data and machine learning.

Editorial and professional service

- Editor-in-Chief, *Journal of Statistics Applications & Probability* (2014–); Main Editor, *JSAP Letters* (2014–)
- Editorial boards: *Quality Engineering*, *SAGE Open*, *The Egyptian Statistical Journal* (2024–); *Journal of Advanced Academics* (2023–)
- Chair, Committee to Nominate Fellows, ASA Quality & Productivity Section (2015–)
- Judge, ASA Undergraduate Statistics Project Competition (2024–) and The Global Undergraduate Awards (2022–2025)

Selected awards

- Harvard–Qatar University Faculty Fellowship (2024)
- Distinguished MBA Graduate, Qatar University (2022/2023)
- Academic and Teaching Excellence Award, College of Arts and Sciences, Qatar University (2018/2019)
- Outstanding Faculty Service Award, Qatar University (2017/2018)
- Outstanding Programs' Coordinator Award, College of Arts and Sciences, Qatar University (2016/2017)
- Jesse C. Arnold Award for Teaching Excellence, Department of Statistics, Virginia Tech (2008/2009)