



Name: Dr. Ahmed Bani-Mustafa
Rank: Professor - Mathematics & Physics
Title: Head of Mathematics & Physics Department

Personal Information

Nationality: Australian
AU Joining Date: 26 Aug 2018
E-Mail Address: a.mustafa@au.edu.kw

Professional Information

Education:	- PhD Degree in Applied Statistics, School of Quantitative Methods and Mathematical Sciences, College of Law and Business. (Research Excellence Award) Thesis Title: "Recursive Residuals and Estimation for Mixed Models". 2005. - Master's Degree – Majoring in Mathematical Statistics (86.6% ranked # 1(top of my class) Course work (comprehensive exam) and Thesis; Title: "Importance Resampling using Chi-Squared Tilting". 1997 - Bachelor of Science Degree – Majoring in Statistics. 1994
Specialization:	Applied Statistics
Current Academic Position:	Professor - Mathematics & Physics
Current Professional Positions:	Head of Mathematics and Physics Department.
Previous Administrative Position Held:	Registrar at Al Faisal University, Jeddah, KSA from 2010-2013
Previous Academic Positions Held:	<u>2013 – 2018, American University of The Middle East, Kuwait.</u> Managerial Statistics, Probability and Statistics I&II, Linear Algebra, and Quantitative Methods (MBA). - Developer and coordinator of and coordinating of statistics courses (including lab manuals) for the colleges of Business and Engineering including quantitative methods for MBA students - Develop and deliver Data analysis seminars for graduate students (graduation projects).

- Supervise and co-supervise and statistical consultant for senior projects (Statistical analysis).
- Researcher and Active research member in two research themes, Modelling and simulation, and Economic development.

2010 – 2013, Alfaisal University, KSA

Full time Registrar, Senior Data Analyst and Associate Professor in Applied Statistics:

Business Statistics, Operations Management (Quality Control), Operations Research and Research Methods (MBA).

- Vice Dean of Admissions and Registration, Registrar Responsibilities and Duties including graduation ceremony management
- Senior data analyst and research committee member
- Supervisor and Co-supervisor of MBA students in different fields including Marketing, HR, TQM, and real estate.
- Design, develop and deliver short and long training courses including: vocational diplomas, Research methodology, Data Analysis Using Excel, Data analysis Using SPSS.
- Registrar Responsibilities and Duties (acting as a vice dean of admission and registration) including graduation ceremony management.

2007 – 2010, Federation University of Australia, Australia.

Full time Senior Data Analyst and lecturer (level B) in Applied Statistics:

Sampling and Sample Surveys, Statistics for Prediction, Measuring OHS performance, Business Statistics, Experimental Design, Data Analysis using SPSS for Postgraduate Students and Biostatistics.

- Senior Data Analyst Modelling large and complex data sets for "Center for Informatics and Applied Optimization".
- Statistical consultant for school of environmental sciences.
- Principal supervisor and co-supervisor for PhD students.
- Course coordinator and Statistical advisor – postgraduate student's consultation (co-supervisor).
- Active research member in two research themes, Sports Injury Prevention and Biomedical research.
- Participate in University open days, colloquium and workshops

2005-2007, Al Albayt University, Jordan

Full time Assistant Professor in Statistics and Actuarial Sciences:

Statistical Methods, Probability and Statistics, Probability Theory, Actuarial Sciences-1, Risk Theory, Stochastic Processes, Actuarial Sciences-2, Actuarial Mathematics, Regression analyses and

	forecasting, Survival Distributions, Statistical Analysis using SPSS, Financial Mathematics, Operations Research, Quality control and Mathematical Statistics. - Preparing and delivering lectures, seminars, computer tutorials and workshops. - Developed Actuarial science curriculum and courses according to SOA curriculum. - Initiate and developed Statistics and Actuarial course materials. - Course coordinator and Actuarial Science advisor – students consultation. - Schedule and control the progressive assessment of actuarial students - Department and faculty meetings and a member of several committees at the department and the University. Represent the University in national statistical studies.
Fellowships And Honors:	NA
Teaching Experience:	More than 20 years teaching several courses in Statistics, Mathematics and Actuarial sciences.
Industrial And Technical Experience:	I developed Recursive Residuals for Linear Mixed Models and applied them on real life problems using Statistical package R and Splus. My research interests are broad, more recently covering methodological developments in applied statistics but for the most mainly in applications of statistics. My work in statistical methodology is focused primarily on model selection techniques, modelling checking, recursive estimation and residuals, and their applications. Currently, I am trying to combine recursive estimation with Linear Mixed models to model time varying parameters and checking the adequacy of the model. Recursive Residuals and signed residuals are still underdeveloped for many statistical models like GLM, LMM, GLMM. Developing such residuals for these models along with their applications is a very rich area of research. More generally, my interest is in advances applied statistical tools and their applications. Applications include Regression models such as; simple and multiple linear regression Generalized Linear models (GLM), Linear Mixed Models (LMM), GLMM, GAM, GAMM, time series, multivariate analysis, and Structural Equation Modelling (SEM). Advanced applied statistical tools led to a collaboration with researchers from different fields including Biomedical, Public Health, Economics, Finance, Accounting, Education, Psychology, and sports science.

Research Interest:	I developed Recursive Residuals for Linear Mixed Models and applied them on real life problems using Statistical package R and Splus. My research interests are broad, more recently covering methodological developments in applied statistics but for the most mainly in applications of statistics. My work in statistical methodology is focused primarily on model selection techniques, modelling checking, recursive estimation and residuals, and their applications. Currently, I am trying to combine recursive estimation with Linear Mixed models to model time varying parameters and checking the adequacy of the model. Recursive Residuals and signed residuals are still underdeveloped for many statistical models like GLM, LMM, GLMM. Developing such residuals for these models along with their applications is a very rich area of research. More generally, my interest is in advances applied statistical tools and their applications. Applications include Regression models such as; simple and multiple linear regression Generalized Linear models (GLM), Linear Mixed Models (LMM), GLMM, GAM, GAMM, time series, multivariate analysis, and Structural Equation Modelling (SEM). Advanced applied statistical tools led to a collaboration with researchers from different fields including Biomedical, Public Health, Economics, Finance, Accounting, Education, Psychology, and sports science.
Research Grants:	▪ (2021) Research grant to assess Self-Care during the COVID-19 Pandemic among the General Public in Kuwait, Kuwait University in conjunction with Research excellent Center (\$11,300). ▪ (2020 - 2021) Research grant to measure the impact of “<i>the Anxiety and the Performance of SMEs on Sustainable Development Goals during COVID-19</i>”, Kuwait Foundation for advancement and science (\$9,830). ▪ (2021) The first one from ACK as a research fund in conjunction with Dr. Sadeq Dhamrah (\$4,000). The grant fund a study of Financial Inclusion and Bank Stability in Kuwait- Comparative Evidence. The work was submitted to a conference and won the best article in the conference. ▪ (2009-2010) Early Career Researcher Development Program, University of Ballarat (AU\$9,430). ▪ Developing new class model diagnostic tools for linear mixed models based on recursive residuals. Early Career Researcher Development Grant, University of Ballarat (AU\$9,430). ▪ (2009-2010) Data Mining Explorations into Sleep Disorders, University of Ballarat (\$10,000) ▪ (2008-2013) Solar Cities Evaluation: Central Victorian Greenhouse Alliance and the Australian Greenhouse Office (2008-2013). A seventeen million grant to investigate and monitor changes in energy consumption over five years for more than 3350 households and 100 businesses across Victoria (15 locations). The study also evaluates the effectiveness of 6 interventions (Solar Cities) in energy reduction. ▪ (2007) AU\$32,500 grant (National Information Technology, Jordan) to measure and evaluate the role of Knowledge Stations on local communities.

Research and Publications including Journal and Books:

- 1) Do a secure business environment and a judicial system complement or substitute each other in spurring stock market development? (2025). Nimer, K., Uyar, A., & Bani-Mustafa, A.. International Journal of Accounting, Auditing and Performance Evaluation, 21(6), 719–742. <https://doi.org/10.1504/IJAAPE.2025.148326>. **SJR: Q1**
- 2) Public perceptions of governance and tax evasion: insights from developed and developing economies. (2025). Nimer, K., Bani-Mustafa, A., AlQudah, A., Alameen, M., & Hassanein, A.. Journal of Financial Reporting and Accounting, 23(3), 855–875. <https://doi.org/10.1108/JFRA-06-2022-0234>. **SJR: Q1**
- 3) Nimer, K., Uyar, A., & Bani-Mustafa, A. (2025). Do a secure business environment and a judicial system complement or substitute each other in spurring stock market development? *International Journal of Accounting, Auditing and Performance Evaluation, 21*(6), 719–742. <https://doi.org/10.1504/IJAAPE.2025.148326>
- 4) "Public perceptions of governance and tax evasion: insights from developed and developing economies". Khalil Nimer, Ahmed Bani-Mustafa, Anas AlQudah, Mamoon Alameen, Ahmed Hassanein. (2025). Journal of Financial Reporting and Accounting; 8 May 2025; 23 (3): 855–875. <https://doi.org/10.1108/JFRA-06-2022-0234>. **SJR: Q1.**
- 5) "Do faculty members matter in corporate entrepreneurship in Kuwaiti higher education institutions?" Abidi, O., Nimer, K., Bani-Mustafa, A., Toglaw, S. and Dzenopoljac, V. (2024), Journal of Applied Research in Higher Education, Vol. 16 No. 5, pp. 1734–1748. <https://doi.org/10.1108/JARHE-05-2023-0190> **SJR: Q2**
- 6) Impact of Economic Growth and Exchange Rate Volatility on FDI Inflows: Cointegration and Causality Tests for the BRICS Countries. Elian, M. I., Bani-Mustafa, A., Sawalha, N., Alsaber, A. R., & Pan, J. (2024). International Journal of Economics and Financial Issues, 15(1), 42–54. <https://doi.org/10.32479/ijefi.17311> **SJR: Q3**
- 7) A country's culture and reporting of sustainability practices in energy industries: does a corporate sustainability committee matter? (2024). Hassanein, A., Bani-Mustafa, A. & Nimer, K. Humanit Soc Sci Commun 11, 1140 <https://doi.org/10.1057/s41599-024-03536-x>. **SJR: Q1**
- 8) Assessment of regional and total skeletal metabolism using 18F-NaF PET/CT in patients with chronic kidney disease. Sharjeel Usmani, Najeeb Ahmed, Gopinath Gnanasegaran, Fahad Marafi, Ahmed Bani-Mustafa & Tim Van den Wyngaert. (2024). Ann Nucl Med 38, 563–573. <https://doi.org/10.1007/s12149-024-01929-1> **SJR: Q2**
- 9) Generalized fuzzy hypergraph for link prediction and identification of influencers in dynamic social media networks. (2024). Firouzkouhi, N., Amini, A., Bani-Mustafa, A., Mehdizadeh, A., Damrah, S., Gholami, A., & Davvaz, B. Expert Systems with Applications, 238, 121736. **SJR: Q1.**
- 10) Do faculty members matter in corporate entrepreneurship in Kuwaiti higher education institutions? (2023). Abidi, O., Nimer, K., Bani-Mustafa, A., Toglaw, S. and Dzenopoljac, V. Journal of Applied Research in Higher Education, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JARHE-05-2023-0190>. **SJR: Q2**
- 11) Revisiting the relationship between transformational leadership and employee psychological empowerment: A more holistic view using organisational culture. (2023). Abdullah Helalat, Hakem Sharari, Rasha Qawasmeh, Ahmed Bani-Mustafa & Zeyad Alkhazali. Cogent Business & Management, 10:3, DOI: <https://doi.org/10.1080/23311975.2023.2254023> . **SJR: Q2**
- 12) A Linear Mixed Model Approach for Determining the Effect of Financial Inclusion on Bank Stability. (2023). Damrah, S.; Elian, M.I.; Atyeh, M.; Shawtari, F.A.; Bani-Mustafa. "Comparative Empirical Evidence for Islamic and Conventional Banks in Kuwait" Mathematics, 11, no. 7: 1698. <https://doi.org/10.3390/math11071698>. **SJR: Q2.**
- 13) Narjes Firouzkouhi, Abbas Amini, Fadi Alkhatib, Ahmed Bani-Mustafa, Chun Cheng, Bijan Davvaz. (2023). Global e-Commerce (GeC) theory by intuitionistic fuzzy Γ -submodule, Engineering Applications of Artificial Intelligence, Volume 123, Part A, 2023, 106252, ISSN 0952-1976, <https://doi.org/10.1016/j.engappai.2023.106252>. **SJR: Q1.**
- 14) Bani-Mustafa, A., Al Qudah, A., Damrah, S., & Alameen, M. (2023). Does culture influence whether a society justifies tax cheating?. Journal of Financial Crime, 30(4), 955-965. . **SJR: Q2.**
- 15) Public perceptions of governance and tax evasion: insights from developed and developing economies. (2022). Nimer, K., Bani-Mustafa, A., AlQudah, A., Alameen, M. and Hassanein, A. Journal of Financial Reporting and Accounting Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JFRA-06-2022-0234>. **SJR: Q2.**
- 16) Relationship between faculty characteristics and their entrepreneurial orientation in higher education institutions in Kuwait. (2022). Abidi, O., Nimer, K., Bani-Mustafa, A. et al. Relationship between faculty characteristics and their entrepreneurial orientation in higher education institutions in Kuwait. J Innov Entrep 11, 12 (2022). <https://doi.org/10.1186/s13731-022-00206-7>. **SJR: Q1**
- 17) Prospective study of Na[18F]F PET/CT for cancer staging in morbidly obese patients compared with [99mTc]Tc-MDP whole-body planar, SPECT and SPECT/CT. (2022). Usmani,

- S., Ahmed, N., Gnanasegaran, G., Al Kandari, F., Marafi, F., **Bani-Mustafa, A.**, & Van den Wyngaert, T. *Acta Oncologica*, 1-10. Received 09 Apr 2022, Accepted 11 Jul 2022, Published online: 21 Jul 2022. **SJR: Q1**
- 18) Effect of government efficiency on tax evasion: the mediating role of ethics and control of corruption. (2022). **Ahmed Bani-Mustafa**, Khalil Nimer, Ali Uyar & Friedrich Schneider. *Journal of Public Administration*, DOI: 10.1080/01900692.2022.2086262. **SJR: Q2**
- 19) Organizational Design for Employee Quality of Life and Sustainability. (2022). Rasha Qawasmeh, Hakem Sharari, Abdullah Helalat & **Bani-Mustafa, A.**, *Journal of Legal, Ethical and Regulatory Issues*, 25(S4). 1-17. **SJR: Q2.**
- 20) Economic Anxiety and the Performance of SMEs during COVID-19: A Cross-National Study in Kuwait. (2022). Mohammad Zainal, **Ahmed Bani-Mustafa**, Mamoon Alameen, Sam Toglaw, and Ali Al Mazari *Sustainability* 2022, 14(3), 1112; <https://doi.org/10.3390/su14031112>. **SJR: Q1**
- 21) Do individual factors affect the relationship between faculty intrapreneurship and the entrepreneurial orientation of their organizations? (2021). **Bani-Mustafa, A.**, Sam Toglaw, Oualid Abidi, and Khalil Nimer. *Economies* 9, no. 4: 199. <https://doi.org/10.3390/economies9040199>. **SJR: Q2.**
- 22) The effects of public governance and national culture on money laundering: A structured equation modeling approach. (2021). AlQudah, **Bani-Mustafa, A. A.**, Nimer, K., Alqudah, A. D., & AboElsoud, M. E. *Journal of Public Affairs*, e2796. <https://doi.org/10.1002/pa.2796>. **SJR: Q2.**
- 23) Does innovation capacity reduce tax evasion? Moderating effect of intellectual property rights, (2021). Ali Uyar, **Bani-Mustafa, A.**, Khalil Nimer, Friedrich Schneider, Amir Hasnaoui. *Technological Forecasting and Social Change*. Vol 173, 2021, 121125, ISSN 0040-1625, <https://doi.org/10.1016/j.techfore.2021.121125>. **SJR: Q1.**
- 24) Improving drilling performance through optimizing controllable drilling parameters. *J Petrol Explor Prod Technol* (2021). **Bani-Mustafa, A.**, Abbas, A.K., Alsaba, M. et al. <https://doi.org/10.1007/s13202-021-01116-2>. **SJR: Q2.**
- 25) The Psychological and Physiological Responses in Population Exposed to COVID-2019 Pandemic. (2020). **Bani-Mustafa, A.**, AlMazari, A. *Current Trends on Biostatistics & Biometrics (CTBB)* DOI: 10.32474/CTBB.2020.03.000155. **SJR: N/A**
- 26) Does culture influence whether a society justifies tax cheating?. (2020). **Bani-Mustafa, A.**, Al Qudah, A., Damrah, S. and Alameen, M. (2020), *Journal of Financial Crime*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JFC-03-2020-0031>. **SJR: Q2.**
- 27) Revisiting the FDI-Growth Nexus: ARDL Bound Test for BRICS. (2020). Elian, M.; Sawalha, N., **Bani-Mustafa, A.** *Standalone Economies. Mod. Appl. Sci.* 2020, 14, 1–20. **SJR: Q2**
- 28) Can board environmental orientation improve US firms' carbon performance? The mediating role of carbon strategy. (2019). Tantawy Moussa, Amir Allam, Said Elbanna and **Bani-Mustafa, A.** *Business Strategy and the Environment (BSE)*. 29(1): 72-86. <https://doi.org/10.1002/bse.2351>. **SJR: Q1**
- 29) The Mechanism of Control of Corruption and Rule of Law: Mediating effect of Culture on Terrorism Financing. (2019). Al Qudah, A., **Bani-Mustafa, A.** and Yamen, A., *Journal of Money Laundering Control*, Vol. 22 No. 3, pp. 498-514. **SJR: Q2**
- 30) The Impact of National Culture on Financial Crime. (2019). Yamen, A., Al Qudah, A., Badawi, A. and **Bani-Mustafa, A.**, *Journal of Money Laundering Control*, Vol. 22 No. 2, pp. 373-387. **SJR: Q2**
- 31) Recursive Residuals for Linear Mixed Models. (2019). **Bani-Mustafa, A.**, Matawie, K.M., Finch, C.F., et al. *Qual Quant*. <https://doi.org/10.1007/s11135-018-0814-6>. **SJR: Q1**
- 32) Developing, a single acceptance sampling plans based on truncated life test for Ishita distribution. (2018). Al-Nasser, A. D, Al-Omari, A. I, **Bani-Mustafa, A.**, and Jaber, K. *STATISTICS IN TRANSITION new series* Vol. 19, No. 3, pp. 393–406, DOI 10.21307/stattrans-2018-022. **SJR: Q4**
- 33) Predicting Total Shipping and Clearance Time For AL-GHANIM SAHARA Transportation. (2018). **Bani-Mustafa, A.**, Abuorf, S., AL-Jumla, R., Al-Mutair, M., Kattan, H., AL-Muzaiel, H., & Patwa, N. *Electronic Journal of Applied Statistical Analysis*, 11(2), 405-426. **SJR: Q3**
- 34) Factors affecting psychological well-being: Evidence from two nationally representative surveys. (2018). Oskrochi, G., **Bani-Mustafa, A.**, & Oskrochi, Y. *PloSOne*, 13(6), e0198638. **SJR: Q1**
- 35) Impact of institutional environment quality on tax evasion: A comparative investigation of old versus new EU members. (2018). Yamen, A., Allam, A., **Bani-Mustafa, A.**, & Uyar, A. *Journal of International Accounting, Auditing, and Taxation*, 32, 17-29. **SJR: Q2**

	36) Sport-specific factors predicting player retention in junior cricket. (2017). Scott Talpey, Tom Croucher, Bani-Mustafa, A., and Caroline F. Finch. European Journal of Sport Science, 17(3):264-270. SJR: Q1 37) Inheritance of coronary artery disease in men: an analysis of the role of the Y chromosome. (2012) Fadi J Charchar, Lisa DS Bloomer, Timothy A Barnes, Mark J Cowley, Christopher P Nelson, Yanzhong Wang, Matthew Denniff, Radoslaw Debiec, Paraskevi Christofidou, Scott Nankervis, Anna F Dominiczak, Bani-Mustafa, A., et al. The Lancet; DOI: 10.1016/S0140-6736(11)61453-0 38) Improved Group Acceptance Sampling Plans For The Gamma Distributed Items. (2011). Aslam, M., Fatima, M., Bani-Mustafa, A., Al-Nasser, A. Statistica & Applicazioni, IX(2), pp. 159-173. 39) Folded Ranked Set Sampling For Asymmetric Distributions. (2011). Bani-Mustafa, A. Al-Nasser, A., and Aslam, M. Communications for Statistical Applications and Methods, 18(1), 147 – 153. 40) Tracking paternal lineages uncovers Y chromosome haplogroup as a predictor of coronary artery disease in British men. (2010). Charchar, F. J., Barnes, T., Nelson, C. P., Debiec, R., Christofidou, P., Bani-Mustafa, A., Samani, N. J. In EUROPEAN HEART JOURNAL (Vol. 31, pp. 616-616). GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND: OXFORD UNIV PRESS. 41) Y chromosome haplogroup as a novel biological risk factor for coronary artery disease – The results of tracking parental lineages in the west of Scotland primary prevention study (WOSCOPS). (2009). F. J. Charchar, M. Tomaszewski, T. Barnes, Y. Wang, S.W. Brouillette, V. Codd, Bani-Mustafa, A., S. Padmanabhan, A.F. Dominiczak, I. Ford, N.J. Samani. Journal of Hypertension, 27(4), S448. 42) Robust Extreme Ranked Set Sampling. (2009). Al-Nasser, A. and Bani-Mustafa, A. Journal of Statistical Computation and Simulation, 79, 859 – 867. 43) On Estimating the Variance of Maximum Entropy Median for Odd Sample Size. (2008). Bani-Mustafa, A., and Amjad D. Al-Nasser. Pak. J. Statist., 2008, Vol.24(1) pp 1 – 10. 44) Importance Resampling using Chi-Square Tilting. (2002). Samawi, Hani M.; Bani-Mustafa, A., S., Ahmed, Mohammad S. 2002. METRON, 60(3/4), pp. 183 – 200.
Paper Presentations at Professional Conferences:	1) An application to manage widespread social media accounts with one smart touch". (2018). Alostad, G. Seraj, F. Malallah, J. Alhajri, H. A. M. Aloqaily and A. Bani-Mustafa. Fifth International Conference on Software Defined Systems (SDS), Barcelona, Spain, 2018, pp. 176-181. DOI: 10.1109/SDS.2018.8370440. 2) Impact of Culture on Terrorist Financing: The Role of Public Governance. (2018). Anas AlQudah, Ahmed Yamen, Ahmed Badawi, and Bani-Mustafa, A. The 41st International academic conference, Venice. Organized by the international institute of Social and Economic Sciences on 04-07 September 2018 in Venice, Italy. 3) The Impact of National Culture on Financial Crime: A cross country analysis. (2017). Ahmed Yamen, Anas Al Qudah, Ahmed Badawi and Bani-Mustafa, A. The 40th Annual Congress of the European Accounting Association University of Valencia; May 10-12, 2017. 4) Recursive Residuals Application in Linear Mixed Models. (2013). Bani-Mustafa, A., K. Matawie. Proceedings of the 28th International Workshop on Statistical Modelling, Palermo, Italy, VIII, pp494 - 496. 5) Marginal longitudinal curves estimated via Bayesian penalized splines for unbalanced case. (2010). Al Kadiri M., Bani-Mustafa, A. & Finch C. Australian Statistical Conference 2010. Statistical Society of Australia Inc. 6) Automatic sleep stage identification: difficulties and possible solutions. (2009). Sukhorukova, N, Stranieri, A, Ofoghi, B, Vamplew, P, Saleem, M, Ma, L, Ugon, A, Ugon, J Muecke, N1 Amiel, H2 Philippe, C, Bani-Mustafa, A., Huda, S, Bertoli, M, Lévy, P and Ganascia, JG. In Proc. Fourth Australasian Workshop on Health Informatics and Knowledge Management (HIKM 2010), Melbourne, Australia. 7) OLS Information Matrix and Recursive Estimation. (2002). Bani-Mustafa, A., K. Matawie. Proc. of The 17th International Workshop on Statistical Modelling in Chania, Crete, July 8-12. 8) Linear Mixed Models for Quality Discordances. (2000). Bani-Mustafa, A., K. Matawie. Proc. of The Third International Conference on Operations and Quantitative Management in Sydney, Australia. December 17-19.

College Service including committee Membership:	Research Coordinator Unit and course moderator and coordinator
National Service:	NA
College Committees:	Research coordinator, Academic Activity coordinator. A member in the School of Engineering council