




Heba Nasr Awwad Ayyoub

Contact

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 Irbid, Jordan

PERSONAL INFORMATIONS

Date of Birth: 15 January 1990

Nationality: Jordanian

Marital Status: Married

LANGUAGES

English: Very Good

Arabic: Mother Tongue

EDUCATION

- **Ph.D. Doctor of Philosophy in Applied Statistics**

Universiti Sains Malaysia (USM) - Malaysia (July/2018 – June/2021)

- **M.Sc. Master Degree in Statistics**

Yarmouk University - Jordan (September/2012 – January/2015)

Rate: Very Good

- **B.Sc. Bachelor Degree in Statistics**

Yarmouk University - Jordan (September/2007 – August/2011)

Rate: Very Good (Placed on honour list: Second semester 2007/2008

First semester 2008/2009

Second semester 2008/2009)

WORK EXPERIENCE

- **Lecturer**

Najran University - Saudi Arabia (August/2015 – August/2019)

- **Part-time Lecturer**

Jerash University - Jordan (July/2021 – September/2021)

- **Assistant professor**

Irbid National University - Jordan (Oct/2022 – Sep/2023)

- **Assistant professor**

Philadelphia University - Jordan (Sep/2023 – Present)

COMMITTEES

- 2015/2016 Member of Planning and Follow-up Committee - Deanship of Preparatory Year - Najran University.

- 2015/2016 Member of Security and Safety Committee - Deanship of Preparatory Year - Najran University.

- 2015/2019 Member of Academic Advising Committee - Deanship of Preparatory Year - Najran University.

- 2016/2018 Deputy Committee for Facilities and Equipment, Girls' Campus - Deanship of Preparatory Year - Najran University.

- 2018/2019 Deputy Committee of Faculty Members, Girls' Campus - Deanship of Preparatory Year - Najran University.

- 2018/2019 Member of Student Activities Committee - Deanship of Preparatory Year - Najran University.

OUTPUT OF SCIENTIFIC PRODUCTION

- **Ph.D. Thesis Entitled:** Extensions of Multivariate Coefficient of Variation Control Charts.
- **M.Sc. Thesis Entitled:** On the Average Run Length of Control Charts for Autocorrelated and Periodically Autocorrelated Data.

PUBLICATIONS

1. **Ayyoub, H. N.**, Khoo, M. B. C., Saha, S., & Castagliola, P. (2020). Multivariate coefficient of variation charts with measurement errors. *Computers & Industrial Engineering*, 147, 106633.
2. **Ayyoub, H. N.**, Khoo, M. B. C., Lee, M. H., & Haq, A. (2021). Monitoring multivariate coefficient of variation with upward Shewhart and EWMA charts in the presence of measurement errors using the linear covariate error model. *Quality and Reliability Engineering International*, 37(2), 694 - 716.
3. **Ayyoub, H. N.**, Khoo, M. B. C., Saha, S., & Lee, M. H. (2022). Variable sampling interval EWMA chart for multivariate coefficient of variation. *Communications in Statistics - Theory and Methods*, 51(14), 4617 - 4637.
4. Awajan, A. M., Al-Hasanat, B., Elkaroui, E., AL e'damat, A., Al-Gounmeein, R. S., Al-Jawarneh, A. S., **Ayyoub, H. N.**, & AlFarajat, E. (2024). Time series forecasting of new cases for covid-19 pandemic in jordan using enhanced hybrid emd-arima. *Journal of Statistics Applications & Probability*, 13(1).
5. Al-Jawarneh, A. S., Alsayed, A. R., **Ayyoub, H. N.**, Ismail, M. T., Sek, S. K., Ariç, K. H., & Manzi, G. (2024). Enhancing Model Selection by Obtaining Optimal Tuning Parameters in Elastic-Net Quantile Regression, Application to Crude Oil Prices. *Journal of Risk and Financial Management*, 17(8), 323.

TRAINING COURSES & SCIENTIFIC PARTICIPATIONS

- Intellectual Security - Skills Development Unit at the Deanship of Development and Quality - Najran University.
- Activating the Black Board E-Learning System - Deanship of E-Learning - Najran University.
- The Joint System for Measuring Learning Outcomes - Skills Development Unit at the Deanship of Development and Quality - Najran University.
- Preparing University Exams According to the Concept of Comprehensive Quality - Skills Development Unit at the Deanship of Development and Quality - Najran University.
- Creating Interactive Content and Publishing it on the Internet - Skills Development Unit at the Deanship of Development and Quality - Najran University.
- International Publication of Scientific Research ISI - Skills Development Unit at the Deanship of Development and Quality - Najran University.
- Activating the System of Virtual Classes - Deanship of E-Learning - Najran University.
- Quality of E-courses - Deanship of Preparatory Year - Najran University.
- Electronic Exams - Deanship of Preparatory Year - Najran University.
- Applied Microsoft Excel in Education - Deanship of Preparatory Year - Najran University.
- The Quality of Human Relationship and the Raising of the Productivity of the Educational Institution - Deanship of Preparatory Year - Najran University.
- Electronic Questionnaire Design - Deanship of Preparatory Year - Najran University.
- Mobile Assisted Language Learning - Deanship of Preparatory Year - Najran University.

- Leadership in Academic Settings - Deanship of Preparatory Year - Najran University.
- Improving Students in E-learning System (Blackboard) - Deanship of Preparatory Year - Najran University.
- Step-by-step Guide on How to Prepare a Successful Paper - AD Webinars - Springer Nature.
- Academic Publishing & Enhancing Research Effectiveness - AD Webinars - Springer Nature.

SKILLS

- Excellent verbal communication skills and interpersonal style.
- Proven ability to work under pressure in a fast paced, time sensitive environment.
- Strong problem solving capability.
- Working knowledge of Microsoft Word, Excel and Power Point.
- Software programming: SAS, Minitab, Matlab, SPSS and R.
- Self-motivated individual capable of taking ownership and working independently.
- Tolerance for stress in a fast paced working environment.
- Excellent planning and organizing skills.

TAUGHT COURSES – Undergraduate Level Course

- Pre-calculus.
- Differential Calculus.
- Calculus (1).
- Introduction to Probability and Statistics.
- Statistics & Probability (1).
- Statistics & Probability (2).
- Statistical Methods.
- Probability Theory.
- Mathematical Statistics.
- Biostatistics.
- Linear Algebra (1).

ACADEMIC REFERENCES

Michael Khoo Boon Chong, Professor
 School of Mathematical Sciences,
 Universiti Sains Malaysia, Pulau Pinang,
 Malaysia. E-mail: mkbc@usm.my

Abdullah Ahmed Smadi, Professor
 Faculty of Science, Statistics Department,
 Yarmouk University, Irbid, Jordan.
 E-mail: asmadi@yu.edu.jo

Abdullah Al-Jawarneh, Assistant Professor
 Faculty of Science, Mathematics Department
 Amman Arab University, Amman, Jordan.
 E-mail: a.aljawarneh@aau.edu.jo