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Naval Architecture, Ocean And Marine Engineering  
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## Research Interests

My research has integrated a combination of non-classical methods to evaluate the energy efficiency of ships. In addition, I have participated in research endeavours aimed at developing Maritime Education and Training (MET) and its institutions beyond the current STCW standards. Recently, I joined the EU-funded SAFEMODE project in 2021, which sparked my interest in human factors and their potential application in marine design and risk management. Finally, I have gained extensive experience implementing various methods in the development of practical solutions, including artificial neural networks, regression techniques, and statistical analysis.

## Qualifications

Master of Science, A decision support system for ship's energy efficient operation: based on artificial neural network method, World Maritime University, PO Box 500, SE-20124, Malmo, Sweden  
Sept 2016 → Nov 2017  
Award Date: 5 Nov 2017

Bachelor of Science in Engineering, Design and build a Remotely Operated Vehicle (ROV), Arab Academy for Science Technology and Maritime Transport  
1997 → 2002  
Award Date: 1 Oct 2002

## Employment

### Research Fellow

Naval Architecture, Ocean And Marine Engineering  
University Of Strathclyde  
United Kingdom  
15 Feb 2021 → present

**Doctor of Philosophy, a focus on analysing Human Performance in the complex maritime domain. The research should apply several methods such as task/process analysis & Human Reliability Analysis techniques. The outcome should provide solutions to improve some of the maritime operations' safety & efficiency**

Naval Architecture, Ocean And Marine Engineering  
University Of Strathclyde  
United Kingdom  
1 May 2021 → present

### Lecturer

Arab Academy for Science, Technology and Maritime Transport  
Egypt  
1 Aug 2014 → 1 Feb 2021

### Marine Engineer

Vela Marine International  
Saudi Arabia  
1 Aug 2008 → 1 Jul 2014

### Marine Engineer

Pyramids Navigation  
Egypt  
1 Jan 2006 → 1 Jul 2008

## Research outputs

### **Development and research directions in ship recycling: a systematic literature review with bibliometric analysis**

Moussa, A. A., Farag, Y. B. A., Gunbeyaz, S. A., Fahim, N. S. & Kurt, R. E., 1 Apr 2024, In: *Marine Pollution Bulletin*. 201, 16 p., 116247.

### **Shield human factors taxonomy and database for learning from aviation and maritime safety occurrences**

Stroeve, S., Kirwan, B., Turan, O., Kurt, R. E., van Doorn, B., Save, L., Jonk, P., Navas de Maya, B., Kilner, A., Verhoeven, R., Farag, Y. B. A., Demiral, A., Bettignies-Thiebaux, B., de Wolff, L., de Vries, V., Ahn, S. I. & Pozzi, S., 7 Mar 2023, In: *Safety*. 9, 1, 26 p., 14.

### **Retrospective application of SAFEMODE risk models to maritime investigation reports**

B. A. Farag, Y., Kurt, R. E. & Turan, O., 29 Nov 2022. 33 p.

### **Using occurrence data to map the elements of a risk model**

N. MacKinnon, S., Farag, Y., Sotiralis, P., Dandu Basappa, R., Thomson, R., Kirwan, B. & Lopez Llobet, M., 28 Aug 2022, *Proceedings of the 32nd European Safety and Reliability Conference (ESREL2022)*. Leva, M. C., Patelli, E., Podofillini, L. & Wilson, S. (eds.). Singapore, p. 3151-3156 6 p. S31-03-408

### **A proposed protocol for GMP-BoK implementation gap analysis - case study at AASTMT**

Ghalwash, G. A., El-Bawab, M. S., Swidan, A. A., Rowihil, M. S., M. Ibrahim, A. & B. A. Farag, Y., 27 Jun 2022, In: *Maritime Research and Technology*. 1, 1, p. 25-35 11 p.

### **Human factors' contribution into maritime accidents by applying the SHIELD HF taxonomy**

Navas de Maya, B., Farag, Y., Bantan, H., Kurt, R., Turan, O., Uflaz, E., Dandu Basappa, R., Sotiralis, P. & Ventikos, N., 26 Jun 2022.

### **Application of human factors-based risk models to support accident investigation**

Ramirez Marengo, C., Farag, Y., Giagloglou, E., Navas de Maya, B., Kurt, R. E. & Turan, O., 19 Nov 2021.

### **Data repository and accident analysis: what experts need to know**

Giagloglou, E., Ramirez Marengo, C., Navas de Maya, B., Farag, Y., Kurt, R. E. & Turan, O., 19 Nov 2021. 1 p.

### **SEAbrary: an electronic repository of maritime safety knowledge**

Demiral, A., Kurt, R. E., Ramirez Marengo, C., Navas de Maya, B., Farag, Y., Turan, O., Bikmaz, C., Ozkarakasoglu, O. & Bastunali, D., 19 Nov 2021. 1 p.

### **Identification of Maritime Education and Training Institutions (METIs) risk in pandemic restrictions**

B. A. Farag, Y., Turan, O., Kurt, R. E., M. Ibrahim, A. & Kumar, D., 26 Oct 2021, In: *Proceedings of The International Association of Maritime Universities (IAMU) Conference*. p. 33-45 13 p.

### **Developing a positive reporting culture in the maritime sector**

Ramirez Marengo, C., Kurt, R. E., Turan, O., Navas de Maya, B., B. A. Farag, Y. & Giagloglou, E., 21 Jun 2021. 1 p.

### **Sustainable development in maritime education and training; trends, challenges and the way forward**

Rowihil, M. S. & B. A. Farag, Y., 8 Apr 2021, (Submitted) In: *Maritime Scientific Research*. 16 p.

### **The development of a ship performance model in varying operating conditions based on ANN and regression techniques**

Farag, Y. B. A. & Ölçer, A. I., 15 Feb 2020, In: *Ocean Engineering*. 198, 12 p., 106972.

### **Global Maritime Professional Book of Knowledge (GMP-BoK)**

Manuel, M., Ghalwash, G., Elsayed Elbawab, M., Ahvenjarvi, S., Nakazawa, T., B. A. Farag, Y., Mohamed Moneer Ibrahim, A. & Rowihil, M., 30 Nov 2019, Tokyo, Japan. 160 p.

### **A decision support system for ship's energy efficient operation: based on artificial neural network method**

B. A. Farag, Y., 11 May 2017, Malmö, Sweden: World Maritime University. 100 p.

## **Prizes**

### **WMU Chancellor's Medal for Academic Excellence**

Farag, Yaser (Recipient), Nov 2017

## **Activities**

### **Ships and Offshore Structures (Journal)**

Yaser Farag (Peer reviewer)

Mar 2023

### **1st International Maritime Human Factors Symposium**

Yaser Farag (Participant)

28 Nov 2022

### **International Association of Maritime Universities Annual General Assembly**

Yaser Farag (Participant)

26 Oct 2021

### **Applied Ocean Research (Journal)**

Yaser Farag (Peer reviewer)

Apr 2021 → ...

### **Ocean Engineering (Journal)**

Yaser Farag (Peer reviewer)

10 Aug 2020

### **Ocean Engineering (Journal)**

Yaser Farag (Peer reviewer)

2020

### **International Association of Maritime Universities, IAMU Annual General Assembly**

Yaser Farag (Participant)

30 Oct 2019 → 1 Nov 2019

### **WMU Journal of Maritime Affairs (Journal)**

Yaser Farag (Peer reviewer)

2018

### **17th International Conference on Maritime Energy Management (MARENER)**

Yaser Farag (Organiser)

24 Jan 2017

## **Projects**

**Cluster ACT: Aggregation and Collaboration Tools to enhance cluster network in the maritime sector**  
Farag, Y.

## **Impacts**