



## YASMINE HIFI

**Mathematician/  
Software Engineer**

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**Nationality**

Canadian

Yasmine has been a Research Project Manager at the R&D unit in Glasgow since its start in May 2012. She has been involved in a number of research projects funded by the European Union. She has mainly worked in projects related to evacuation analysis, decision support systems, human factors in design and, more recently, on energy management.

She has a Master in applied mathematics and is completing a MPhil at the Department of Naval Architecture, Ocean and Marine Engineering (NAOME) of the University of Strathclyde (Glasgow) and her subject of study is a simplified model for the prediction of the mustering time on board passenger ships.

### Work History

- May 2012-present: Research Project Manager, Brookes Bell R&D, Glasgow (UK).  
Scope of work: risk modelling, Bayesian networks, evacuation analysis.
- March 2012-April 2012: Researcher, Safety At Sea Ltd., Glasgow (UK).  
Scope of work: evacuation analysis.
- September 2006-February 2012: Research Assistant, University of Strathclyde, Ship Stability Research Centre (SSRC), Glasgow (UK).

- Involved in European Union funded projects (assessment of life-saving appliances, emergency response on board ships).

- Simulation of evacuation of passenger ships.
- Use of Bayesian network for assessment procedures.
- Students mentoring.

Winter 2006: Université de Montréal (Canada).  
Teaching Assistant (data structures).

Autumn 2003-Winter 2004: Ecole Polytechnique de Montréal (Canada).  
Teaching Assistant (linear algebra).

## Education

Currently completing a MPhil at the Department of Naval Architecture, Ocean and Marine Engineering (NAOME), University of Strathclyde (Glasgow).

Field of study: risk assessment of evacuation and rescue process for a crisis management system.

September 2004-April 2006: PhD student in computer science, Laboratory of Bioinformatics.  
Université de Montréal, Canada.

September 2001-August 2004: Master in applied mathematics. Master thesis: "Générateur de missions de DSS-1-CAD: Extensions et analyse des solutions". (DSS-1-CAD missions generator: extensions and missions analysis). Ecole Polytechnique de Montréal (Canada).

Passed subjects: Design and Implantation of Operational Research Algorithms, Modelling in Operational Research, Mathematical Programming II, Production Optimization.

## Publications

"*Evacuability of a flooded passenger ship*". A. Pennycott, Y. Hifi. 4th International Maritime Conference on Design for Safety. Italy. October 2010.

"*IMO Information Paper - The SAFEGUARD enhanced scenarios and recommendations to IMO to update MSC Circ 1238*". E.R. Galea, A. Grandison, D. Blackshields, G. Sharp, L. Filippidis, S. Deere, I. Nicholls, Y. Hifi, A. Breuillard, A. Cassez. SAFEGUARD Passenger Evacuation Seminar 30 November 2012, London, UK, pp. 106-110, ISBN 978-1-909024-08-3, 2012.

"*IMO INF Paper Summary - The SAFEGUARD enhanced scenarios and recommendations to IMO to update MSC Circ 1238*". E.R. Galea, A. Grandison, D. Blackshields, G. Sharp, L. Filippidis, S. Deere, I. Nicholls, Y. Hifi, A. Breuillard, A. Cassez. SAFEGUARD Passenger Evacuation Seminar 30 November 2012, London, UK, pp. 105, ISBN 978-1-909024-08-3, 2012.

"*IMO Information Paper - The SAFEGUARD validation data-set and recommendations to IMO to update MSC/Circ. 1238*". E.R. Galea, L. Filippidis, S. Deere, R. Brown, I. Nicholls, Y. Hifi, N. Besnard. SAFEGUARD Passenger Evacuation Seminar 30 November 2012, London, UK, pp. 98-103, ISBN 978-1-909024-08-3, 2012.

"*IMO INF Paper Summary - The SAFEGUARD validation data-set and recommendations to IMO to update MSC/Circ. 1238*". E.R. Galea, L. Filippidis, S. Deere, R. Brown, I. Nicholls, Y. Hifi, N. Besnard. SAFEGUARD Passenger Evacuation Seminar 30 November 2012, London, UK, pp. 97, ISBN 978-1-909024-08-3, 2012.

"*The SAFEGUARD heel scenario evacuation benchmark and recommendations to IMO to update MSC circ 1238*". I. Nicholls, Y. Hifi, B.S. Lee, E.R. Galea, S. Deere, D. Blackshields, G. Sharp. SAFEGUARD Passenger Evacuation Seminar 30 November 2012, London, UK, pp. 83-90, ISBN 978-1-909024-08-3, 2012.

"*The SAFEGUARD fire scenario evacuation benchmark and recommendations to IMO to update MSC circ 1238*". E.R. Galea, A. Grandison, D. Blackshields, G. Sharp, L. Filippidis, S. Deere, I. Nicholls, Y. Hifi, SAFEGUARD Passenger Evacuation Seminar 30 November 2012, London, UK, pp. 65-82, ISBN 978-1-909024-08-3, 2012.

"*The SAFEGUARD validation data-set and recommendations to IMO to update MSC circ 1238*". E.R. Galea, S. Deere, L. Filippidis, R. Brown, I. Nicholls, Y. Hifi, N. Besnard. SAFEGUARD Passenger Evacuation Seminar 30 November 2012, London, UK, pp. 41-60, ISBN 978-1-909024-08-3, 2012.

"*Quantifying the effect of noise, vibration and motion on human performance in ship collision and grounding risk assessment*". Jakub Montewka, Floris Goerlandt, Gemma Innes-Jones, Douglas Owen, Yasmine Hifi, Markus Porthin.

The Probabilistic Safety Assessment & Management Conference (PSAM 12). USA. June 2014.

"*Passenger Ship Evacuation - Design and Verification*". Luis Guarin, Yasmine Hifi and Prof. Dracos Vassalos. HCI International 2014. Greece. June 2014.