

## **Marie Haugli Larsen**



### **Title:**

Perception of cyber risks in offshore operations

### **Short project description**

In today's maritime operations there is an increasing reliance on digitalization, integration, automation and networked-based systems. The increase of technology and connectivity makes operations at sea vulnerable to cyber-attacks.

Risk perception plays a vital role in identifying cyber risks and achieving risk awareness. Research into this side of cyber security in the maritime domain is limited, but it can be valuable to identify and understand seafarers' cyber risk perception. By understanding cyber risk perception, we can create targeted education, develop policy to improve behavioral compliance, and design technical solutions more effectively. This study will therefore focus on achieving in-depth understanding of cyber risk perception in the maritime domain.

### **Industrial goals**

Achieve better understanding of deck officers cyber risk perception, in order to give the maritime industry recommendations on cyber policies, operational cyber training and the development of dispersed bridge crew.

### **Scientific questions**

1. How can perception of maritime cyber risks be understood in the context of offshore operations?
2. How does the deck officer perceive cyber risks in offshore operations?
3. In what way can knowledge about deck officer's perception of cyber risks contribute to the development of dispersed bridge crews?

### **Innovations**

A new model of cyber risk perception in offshore operations, and recommendations for how this can be used in the development of training programs, policies and dispersed bridge crews.

**Main supervisor:** Frøy Birte Bjørneseth

**Co-supervisors:** Runar Ostnes, Sokratis Katsikas, Mass Soldal Lund