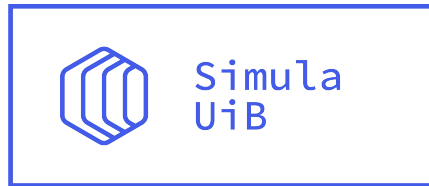


# Cryptologic Research at Simula UiB

Presented at NKS'24



# Who we are...

A **research institute** owned by Simula Research Lab (Oslo) and University of Bergen

## **Mission:**

Lead in **research** and **education** in **cyber security**, especially related to disruptive technologies for secure and reliable communication and computation

Two departments: **Cryptography** and **Information Theory**

# Future focus

## Quantum Technologies

- quantum error correcting codes
- quantum algorithms
- quantum cryptography
- **post-quantum cryptography**

## Privacy-Enhancing Technologies

- private and distributed ML / AI
- secure computation and data sharing
- fully-homomorphic encryption
- zero-knowledge proofs

# Senior researchers



**Eirik  
Rosnes**



**Hsuan-Yin  
Lin**



**Øyvind  
Ytrehus**



**Carlos  
Cid**



**Håvard  
Raddum**



**Martijn  
Stam**

**Information theory**

**Cryptography**

Postdocs

1

5

PhDs

2

4

# Leaving our footprints...

- **Research:** Selected publications

	Eurocrypt	PKC	Crypto	CHES	FSE	ISIT	IEEE T IT
2023	✓🪑	✓	✓	✓	✓	✓	✓
2024	✓	✓	✓			✓	✓

- **Education:** PhD graduates working at NSM, NTNU, Equinor and... [Simula UiB!](#)
- **Outreach:** Bi-annual networking event at [Simula UiB](#):  
*Tuesday 12 March 2024:* Quantum Cybersecurity  
**Monday 4 Nov 2024:** [Privacy Preserving Technology](#) (free registration!)

# ArcticCrypt 2025

ArcticCrypt 2025 will take place in Longyearbyen, Svalbard on July 6th-11th 2025

[Registration opens 1 November!](#)

