Johannes Pippidis Lorentzen

Curriculum vitae
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Interdisciplinary researcher pursuing a PhD in Information Security and Communication Technology at NTNU. Background in criminology, physics, safety engineering, anti-money-laundering technology and Arctic fieldwork.

Professional experience

2017-present — **Lead IT Architect · DNB Bank ASA**
Lead architect for AML, eFraud and machine-learning domains: blueprints, technology strategy, solution design and long-term IT architecture and data. Earlier data scientist and data engineer roles in anti-money laundering; engineering team leadership during 2020-2021. Graduate programme in Business Intelligence, 2017-2018. Two professional assignments in the New York office, working on AML and business topics. Since mid-2024, 75% of time allocated to PhD research.

2012-2013; 2016-2017 — **Research & teaching assistant · NTNU**
Teaching and feedback across four courses; review of health, safety and environment research in aquaculture; automation of a hydraulic ice test rig.

2012 & 2014 — **Department Engineer · Norwegian Polar Institute**
Catalogued Antarctic iceberg observations and assessed the quality of the observation data.

Education

2024-present — **PhD, Information Security and Communication Technology · NTNU, Gjøvik**
Research on anti-money-laundering system design and effectiveness.

2018-2024 — **Bachelor of Criminology · University of Oslo**

2015-2017 — **MSc, Safety, Health and Environment · NTNU**
Thesis: An Investigation of Arctic Safety Events.

2013-2015 — **Master of Physics · NTNU & UNIS**
Thesis: Electromagnetic Principles for In Situ Ice Thickness Determination — Field Experiments and Development of New Methods for Interpretation.

2009-2013 — **Bachelor of Physics · NTNU & UNIS**
Experimental and Arctic environmental physics.

Academic service

2026-present	**Specialist Editor · International Journal of Economic Crime**

Fieldwork

Arctic fieldwork	Land: 45 days Sea: three research cruises (22 days)

Volunteering & governance

Since 2011	**Certified mountain guide · Norwegian Trekking Association (DNT)**
2014-2017	**Representative and committee roles · Velferdstinget i Trondheim**
2014-2016	**Control systems and leadership · Vortex NTNU**
2012 & 2014	**Student representative / observer · UNIS Board**

Personal interests & languages

Languages	Norwegian (native) and English (fluent).
Outdoors	Climbing, hiking and mountain guiding, with a particular interest in Arctic environments.
Technical interests	Amateur radio, engineering projects and building practical tools.

Peer-reviewed publications

Johannes Pippidis Lorentzen; Mads Skipanes (2026). Entity recovery in criminal investigations: Evaluating NER and investigator labels on real case texts. Forensic Science International. DOI: 10.1016/j.forsciint.2026.112828

Mads Skipanes; Johannes Pippidis Lorentzen; Sule Yildirim Yayilgan (2026). Understanding the Role of Case Management Systems in Criminal Investigations. International Journal of Law, Crime and Justice. DOI: 10.1016/j.ijlcj.2025.100805

Johannes Pippidis Lorentzen (2025). Irregular Deposits in Norway: Systemic Economic Crime in the Rental Market. Journal of Economic Criminology. DOI: 10.1016/j.jeconc.2025.100174

Martin Jullum; Anders Løland; Ragnar Bang Huseby; Geir Ånonsen; Johannes Lorentzen (2020). Detecting Money Laundering Transactions with Machine Learning. Journal of Money Laundering Control. DOI: 10.1108/jmlc-07-2019-0055