Lodewijk Arntzen is a Principal Physics Lecturer and Researcher. He received his Masters degree in Physics from the Vrije Universiteit Amsterdam, and completed his PhD degree at the Physikalisches Institut Heidelberg. His doctoral research is on Quantum Reflection of Cold 3-Helium and its connection to the Casimir Van der Waals Potential, establishing a foundation in fundamental quantum phenomena. Currently, Dr. Arntzen now serves as a researcher within the Smart Sensor Systems group at the Hague University of Applied Sciences. In this role, he bridges the gap between theory and practical application, focusing on the translation of quantum principles into real-world technologies. As a Principal Lecturer, he teaches across both the Bachelor Applied Physics and the Master Applied Quantum Technology programs, mentoring the next generation of engineers. A key pillar of his current work involves the development of new research lines in Applied Quantum Technology, including Quantum Sensing Applications, aiming to deploy high-precision quantum sensors.