Universiteit Leiden
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Probing quantum puddles: nonlinear dynamics in superfluid film optomechanics

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Curriculum Vitae

I was born on November 2nd, 1994 in Wiesbaden, Germany and grew up there. After completing my German high school diploma at Gutenbergschule Wiesbaden in 2014, I started studying physics at ETH Zürich in Switzerland. I obtained my BSc degree in physics in 2018 and finished my MSc in physics in 2021 with my MSc thesis titled *Fast and random measurement basis choice for a loop-hole-free Bell test on superconducting qubits* in the group of Andreas Wallraff.

In March 2021, I started my PhD under the supervision of Dirk Bouwmeester. During the work presented in this thesis, I developed an experimental platform to optomechanically probe and control the motion of a thin film of superfluid Helium condensed on an optical ring resonator. I (co-)supervised four students during their research project in our lab and served as teaching assistant for a practical laboratory courses. I attended conferences in Veldhoven, The Netherlands and the summer school *The new mechanics* in 2022 in Les Houches, France. I also gained experience in international collaborations through the work with my colleagues at UCSB.

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My son **Éloan** has enriched my life in the past 2 years in incredible ways and I am very thankful to share this time with him.

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