

## Regine Hartwig

"As an engineer, I want to develop new technologies to solve the problems of today."

## Education

01/2019 - 05/2019	Master of Science, Nanyang Technological University, Singapore. Exchange Program
04/2017 - 05/2019	Master of Science, Technical University, Munich. Specialization in Automation and Robotics
10/2013 - 03/2017	Bachelor of Science, Technical University, Munich.
09/2003 - 06/2012	$\begin{tabular}{lll} \textbf{Higher Education Entrance Qualification}, & Feodor-Lynen-Gymnasium, \\ Planegg. \end{tabular}$

09/1999 - 08/2003 Transfer, Primary School, Martinsried.

	Experience
06/2022 – Now	PhD Student, Computer Vision Group Technical University, Munich. Computer Vision Group, Prof. Daniel Cremers
06/2019 - 05/2022	Research Assistant, Research Hospital Technical University, Munich.  BMBF Project Compass: Navigation and Visualization in Minimally-Invasive Surgery
05/2018 - 12/2018	Master Thesis, Arnold and Richter Cine Technology GmbH, Munich. Investigation of Error Propagation in FPGA Implementation of Digital Video Signal Processing Pipeline
11/2016 - 03/2017	<b>Bachelor Thesis</b> , <i>Mercateo AG</i> , Munich. Statistical Modeling and Analysis of Information Spreading, Supervision: Prof. Dr.
	Martin Kleinsteuber, Chair of Machine Learning and Geometric Optimization

## Publications

- [1] Regine Hartwig et al. "Constrained Visual-Inertial Localization With Application And Benchmark in Laparoscopic Surgery". In: Int. Conf. on Robotics and Automation (ICRA). IEEE, 2022. URL: https: //arxiv.org/pdf/2202.11075.pdf.
- [2] Dirk Wilhelm et al. "Ethical, legal and social implications in the use of artificial intelligence-based technologies in surgery: principles, implementation and importance for the user". In: Der Chirurg; Zeitschrift Fur Alle Gebiete Der Operativen Medizen 93.3 (2022), pp. 223-233.