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## Advancing learned algorithms for 2D X-ray computed tomography

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# Curriculum Vitae



Maximilian B. Kiss was born in 1995 in Regensburg, Germany. He obtained his bachelor's and master's degree in Physics from the Eidgenössische Technische Hochschule (ETH) Zurich in 2018 and 2020, respectively. From 2020 - 2024 he undertook a PhD degree under supervision of prof. dr. K. J. Batenburg and co-supervision of dr. F. Lucka and prof. dr. T. van Leeuwen at the Centrum Wiskunde & Informatica (CWI), the national research institute for mathematics and computer science in Amsterdam, The Netherlands. During his PhD studies, he took courses on inverse problems in imaging, on optimisation techniques in inverse problems, and in scientific conduct, among others. During this time, he was also active in voluntary work, co-founded the social startup "youmocracy - democracy needs you" (Berlin, Germany) and served as its Head of Nationwide Tasks & Acquisitions. Furthermore, he

was an active member (2021) and co-chair (2022) of CWI's Activity Committee. In 2023 and 2024, he was a Visiting Student at Clare Hall (Cambridge, United Kingdom), and performed part of his research at the Cambridge Image Analysis (CIA) group of prof. dr. C.-B. Schönlieb at the Department of Applied Mathematics and Theoretical Physics (DAMTP) of the University of Cambridge (Cambridge, United Kingdom) during a four-month and three-month research placement. More information about his career can be found on LinkedIn: <https://www.linkedin.com/in/maximilian-kiss-986a881a2/>.

Photograph by Lukas Linder.



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At the same time, I want to thank my co-promoter and daily supervisor, Felix Lucka, who has secured funding for my position/project. I am grateful for your kind, caring supervision smoothing the start of my PhD studies during Corona. I appreciate your social nature and the opportunities you gave me, such as presenting on your behalf at international conferences, participating in selected workshops, and supporting two transformative research stays at the University of Cambridge.

Furthermore, I would like to thank all my co-authors for their contributions to the publications within this thesis and especially acknowledge Johannes Krauß for creating many of its illustrations.

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In Cambridge I had the privilege to call Clare Hall my academic home. Thanks, Holly Hedgeland, for accepting my application as a Visiting Student and to all my rowing teammates. Thanks also to all my colleagues at the Cambridge Image Analysis group and my host Carola Schönlieb for providing such a social and collaborative environment.

I would like to express my gratitude to my informal and formal mentors, that have inspired and guided me in my academic life: Markus Anthofer, Henrik Becker, Alexandre Réfrégier, Peter Manser, Michael Fix, Lei Xing, and Karl Bush.

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