Machine learning-based NO2 estimation from seagoing ships using TROPOMI/S5P satellite data

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Acknowledgements

"Differences of habit and language are nothing at all if our aims are identical and our hearts are open."

Albus Dumbledore, Harry Potter and the Goblet of Fire

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Curriculum Vitae

"- Who are you? - said the Caterpillar.
- I hardly know, Sir, just at present—at least I know who I was when I got up this
morning, but I think I must have been changed several times since then."
Alice's Adventures in Wonderland

Solomiia Kurchaba was born on November 24, 1995, in Lviv, Ukraine. In 2013, she graduated from the Lviv Physics and Mathematics Lyceum. She then started her studies at the University of Silesia in Katowice, Poland. During her bachelor's studies, she was a part of the Multidisciplinary College for Individual Studies combining econophysics as a major and financial mathematics as a minor. She also participated in Erasmus+ student exchange program and spent one semester of her studies at Universidade do Minho, in Braga, Portugal. In 2016, she obtained her bachelor's degree cum laude in Econophysics. In 2018, she completed her Master's studies in theoretical physics, cum laude. During her studies, she was a recipient of the Stephan Banach scholarship - a Polish government scholarship for international students in STEM. During her Master's she also enrolled in a summer research internship at the Machine Learning Group of the Universite Libre de Bruxelles in Brussels, Belgium. She then started her job as a data scientist in Storkjet – a startup, where her job was to develop machine-learning-based solutions for aircraft performance optimization. During her work in the company, the developed solutions were implemented into the production systems of several big European and American airlines. In 2019, she started her PhD studies at Warsaw University of Technology. However, after one semester she decided to change her PhD program. In May 2020, despite COVID restrictions, she moved to Leiden, The Netherlands. Starting from May 2024, she is a postdoctoral researcher at SRON Netherlands Institute for Space Research.