

# Mathijs Henquet

## Technical skills

|              |  |
|--------------|--|
| Advanced     | Rust, C# (.NET Core), Javascript (Typescript, Node.js), React, Web (HTML, CSS), Haskell, Mathematica, $\text{\LaTeX}$        |
| Intermediate | Git, Java, PHP (Symfony, Doctrine), SQL (MySQL, PostgreSQL, Oracle), NoSQL (MongoDB, Redis), Docker, Linux, Powershell, Bash |
| Basic        | Many more...   |

## Education

|             |   |
|-------------|---|
| 2020 –      | <b>Master Mathematics</b> , <i>Utrecht University</i> , Ongoing                           |
| 2015 – 2019 | <b>Bachelor Informatics</b> , <i>Utrecht University</i> , Grade point average 7.8         |
| 2012 – 2019 | <b>Bachelor of Mathematics</b> , <i>Utrecht University</i> , Grade point average 7.8      |
| 2016 – 2017 | <b>Erasmus semester</b> , <i>Freiburg University, Germany</i>                             |
| 2006 – 2012 | <b>Secondary education</b> , <i>De Nieuwste School, Tilburg</i> , Grade point average 8.5 |

## Projects and awards

|       |   |
|-------|---|
| 2022– | Master thesis project, Ongoing<br>On the correctness of automatic differentiation in the presence of recursion and iteration.   |
| 2019  | Summer fellow at MIRI<br>An extended retreat by the Machine Intelligence Research Institution for mathematicians and programmers with a serious interest in making technical progress on the problem of AI alignment.   |
| 2019  | Bachelor Thesis Homotopical mathematics 📄, Grade: 9<br>On homotopy type theory and its relation to higher topos theory.   |
| 2018  | Software project Speech2EPD 📄<br>We made a system which produces a electronic medical file by collecting multimodal inputs such as recorded consults and digital measurements. For this I designed and implemented a flexible microservices based architecture which served as the backbone of this system. |
| 2016  | Winner of $\mu$ KP programming competition<br>A programming competition amongst the CS students at Utrecht University.  |

## Experience

|      |   |
|------|---|
| 2020 | Volunteer at Epidemic Forecasting 🌐<br>Supporting decision makers with Covid19 scenarios and modeling, geared toward the global south. I worked on presenting the models in the frontend. |
| 2015 | Tutor Linear Algebra at Utrecht University  |

## Language skills

|       |             |         |                  |        |                |
|-------|-------------|---------|------------------|--------|----------------|
| Dutch | C2 - Native | English | C2 - Near native | German | C1 - Excellent |
|-------|-------------|---------|------------------|--------|----------------|