

# Max BRIEL

## PERSONAL DATA

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NATIONALITY: Dutch  
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## EDUCATION

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| FEB 2020 - CURRENT   | <b>Doctor of Philosophy in Physics, <i>University of Auckland</i></b><br>By combining large scale cosmological simulations and smaller scale stellar population synthesis codes, I am predicting event rates of supernovae, binary interactions, and gravitational wave events.<br>SUPERVISOR Dr. JJ Eldridge (UoA)   |
| SEPT 2017 - OCT 2019 | <b>Master Physics and Astronomy GRAPPA, <i>University of Amsterdam</i></b><br>A two-year master on Gravitational Astroparticle Physics with a year long research project at the Dutch Institute for (Sub)atomic Physics (Nikhef) GPA: 7.9/10<br>THESIS Muonic event reconstruction at KM3NeT using parametrised likelihoods with hit and no-hit information.<br>SUPERVISOR Dr. Ronald Bruijn (Nikhef) |
| SEPT 2016 - AUG 2017 | <b>Bachelor Artificial Intelligence, <i>University of Amsterdam</i></b><br>A gap-year to broaden my theoretical knowledge and deepen my practical experience with machine learning techniques<br>SIDE-PROJECT Analysis of Dutch parliament votes<br>SUPERVISOR Dr. Maarten Marx (UvA)   |
| SEPT 2013 - AUG 2016 | <b>Bachelor of Science, <i>Amsterdam University College</i></b><br>Liberal Arts and Sciences with a major in Physics, Mathematics, and Informatic. Graduated with highest honours (summa cum laude) GPA: 3.9/4<br>THESIS Computational stellar evolution of merger products in MESA<br>SUPERVISOR Dr. Selma de Mink (API)   |
| SEPT 2015 - JAN 2016 | <b>Erasmus Exchange Program, <i>University of Edinburgh</i></b><br>Informatics and honour astrophysics courses  |

## ACADEMIC ACTIVITIES

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|---------------------|---|
| DEC 2018            | <b>SBF-APS SP-SASEN 2019, University of Campinas, Brazil</b><br>Two Week Experimental Neutrino Physics Summer School                                      |
| POSTER PRESENTATION | <i>Light Probability Density Functions in KM3NeT</i>  |
| OCT 2018            | <b>Explore Entrepreneurship with CERN Technology, ACE Venture Lab</b><br>Two day program in which a business plan is created implementing CERN technology |
| JUNE - AUG 2018     | <b>CERN Summer School 2018, ATLAS Collaboration</b><br>6 Week Summer School on Particle Physics   |
| PROJECT             | Higgs production classification for its dimuon decay using multivariate analysis  |
| SUPERVISOR          | Pamela Ferrari (Nikhef; ATLAS)  |

## EXTRACURRICULAR ACTIVITIES

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| NOV 2019 - JAN 2020   | <b>Tutor, Lyceo</b><br>Providing personalised help for high school students during extra after school classes; One-on-one tutoring in Maths, Physics, Chemistry, and English; Final exam training in Chemistry; Additional teaching on study days for Physics and Maths |
| NOV 2019 - JAN 2020   | <b>Tutor, PLUK Begeleiding</b><br>Tutoring in high school Science courses   |
| NOV 2019 - JAN 2020   | <b>Tutor, KICK Begeleiding</b><br>One-on-one assistance in Maths and Planning   |
| JUNE 2017 - JULY 2019 | <b>Private Tutor, WisMon</b><br>One-on-one teaching and tutoring up to university level courses   |
| APRIL - MAY 2017      | <b>Teaching Assistant, University of Amsterdam</b><br>Provide feedback with programming exercises at the information sciences course, Collective Intelligence   |
| SEPT 2016 - MAY 2017  | <b>Chair, A.S.Z.V. SPONS Batavierenrace board</b><br>Organise a 25 person relay team to participate in the 2017 Batavierenrace  |
| JAN - JUNE 2015       | <b>Founder Connect Beta, ACE Venture Lab</b>  |
| MARCH 2015            | <b>Co-founder AUC's Student Entrepreneurship Community</b><br>Promote entrepreneurship for students by organising events and founding an organisation offering help to students with their startup  |
| JUNE 2014 - AUG 2015  | <b>General Board Member, Socrates International Honours Society</b><br>Organising events and workshops for excellent students to improve their skills and connect them to businesses  |
| SEPT 2014 - JUNE 2015 | <b>Chair &amp; Editor-in-chief, Amsterdam University College Yearbook Board</b>   |

## LANGUAGES

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DUTCH: Native  
ENGLISH: Fluent  
GERMAN: Intermediate Knowledge

## COMPUTER SKILLS

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Advanced Knowledge: PYTHON, C++,  $\text{\LaTeX}$   
Intermediate Knowledge: GIT, R, JAVA, CSS, JAVASCRIPT, HTML