

MAXIMILIAN PIERZYNA

AEROSPACE ENGINEER, B.Sc.



EDUCATION

M.Sc. in Aerospace Engineering (Grade 1.2*) 10/2019 - 06/2022

Technische Universität Braunschweig, Braunschweig, Germany

- Master thesis: "Characterisation of on-orbit fragmentation events based on TLE data" (in progress)

M.Sc. in Aerospace Engineering (Erasmus+ semester) 08/2020 - 01/2021

Kungliga Tekniska Högskolan (KTH), Stockholm, Sweden

B.Sc. in Mechanical Engineering (Grade 1.4*) 10/2015 - 09/2019

Technische Universität Braunschweig, Braunschweig, Germany

- Bachelor thesis: "Prediction of droplet splashing using machine learning techniques"

EXPERIENCE

Student Researcher in Machine Learning Modelling of Aerodynamical Problems

11/2019 - present

Institute of Fluid Mechanics, TU Braunschweig

- Developing Machine Learning classification and regression models to predict physical properties and parameters of flow problems

System Administrator

04/2016 - 01/2020

Coordinated Research Centre 880 (CRC 880), TU Braunschweig

- Maintained the research centre's Linux server and research data platform
- Contributed to the strategic planning and development of the IT infrastructure and the research-supporting IT tools

Airworthiness Engineer (Internship)

04/2018 - 09/2018

Elbe Flugzeugwerke GmbH (EFW), Dresden, Germany

- Prepared, executed, and documented qualification tests and certification tests of carbon-fibre reinforced panels for Airbus aircraft

PUBLICATIONS

- Pierzyna, M., Burzynski, D. A., Bansmer, S. E., & Semaan, R. (2021). Data-driven splashing threshold model for drop impact on dry smooth surfaces. *Physics of Fluids*, 33(12), 123317.

PERSONAL DETAILS

✉ mail@maximilian-pierzyna.de

🌐 maximilian-pierzyna.de

LANGUAGE SKILLS

German (Native language)

English (C2)

Italian (A2)

Swedish (A1)

IT SKILLS

Programming

Python Matlab C++ git
databases parallelisation

Data Science

PyTorch scikit-learn
bayesian optimisation

Miscellaneous

Latex Docker CATIA V5
Linux desktop Linux server

VOLUNTARY WORK

IT Manager and Regional Coordinator

03/2021 - present

Erasmus Student Network (ESN) Braunschweig e.V.

- Organising events and trips for 30 to 60 international students to show them the city and the region and bring them into contact with German culture

Web Developer

05/2013 - present

Verein ehemaliger Josephiner e.V., Hildesheim, Germany

- Design, development, and maintenance of my high school's alumni association website to enable communication between the association's board and its more than 2000 alumni

INTERNATIONAL EXPERIENCE

Working Holiday

09/2014 - 05/2015

Australia

- Worked on different farms in rural Australia, thereby financing the entire trip, and improved my English skills to fluency

Scientific Exchange

06/2012

Krasnojarsk and Novosibirsk, Russia

- Observed and evaluated the transit of Venus in front of the sun

REFERENCES

- available upon request

INTERESTS

Cooking, Sailing, Windsurfing,
Inlineskating, Programming,
Travelling