## **ABOUT ME**

I am a curious and creative person; I like overcoming professional challenges by bringing in innovative ideas.

## **SKILLS**



## ROUSSEL DESMOND NZOYEM

Looking for an internship in machine learning and scientific computing.



## RESEARCH EXPERIENCE

## Interactive AI CDT Summer Project | UoB HPC Research Group

May 2022 - August 2022

Pristol UK

 Explored ways to accelerate algebraic multigrid linear solvers with machine learning (ML), namely Geometric Deep Learning and Graph Neural Networks.

## MSc Internship | Jacques-Louis Lions Laboratory (Sorbonne University)

i February 2021 - July 2021

Paris, FF

• Studied the collapse of the Arctic ice cap via a percussive granular model of the MIZ. Ice floes were modelled with mass-spring-damper systems and fracture with the Francfort-Marigot model.

## R&D Internship | Institut Recherche Mathématiques Avancées (IRMA)

IIII June 2020 - August 2020

Strasbourg, FR

• Inverse problem using ML (VNet) for the supervised reconstruction of a domain's density found by solving the radiative transfer equation (RTE) with a Finite Volume splitting scheme.

## WORK EXPERIENCE

## Volunteer Private Instructor | Complétude & ExamStar

🛗 January 2020 - Present

Strasbourg, FR & Bristol, UK

Weekly monitoring of high school students in mathematics and computer science with group tutoring during holidays.

#### **Webmaster | Musica International**

September 2019 - October 2019

Strasbourg, FR

· Website management and maintenance of a music score database and a showcase website.

## **EDUCATION**

## PhD in Interactive Artificial Intelligence | University of Bristol

September 2021 - September 2025

Pristol, UK

• Combining physics- and data-driven techniques for efficient mesh-free control of PDEs.

#### Master's degree (MSc) in Scientific Computing (CSMI) | University of Strasbourg

🛗 September 2019 - September 2021

Strasbourg, FR

• Explored theoretical and practical aspects of deep learning, numerical methods for PDEs, etc.

# Bachelor's degree (BSc) in mathematics | Aix-Marseille University

Marseille, FR

• Semesters 5 and 6 finalising my BSc with a particular accent on theoretical principles.

## Advanced technician's certificate in mechatronics | Oshima College of Technology

## April 2017 - June 2019

V Oshima, JF

• Intensive training focusing on mechanics, electronics, and computer science.

## Associate degree in computer science | University of the People

iii January 2017 - April 2019

Pasadena, USA

Theoretical and applied computer science followed by web and software development projects.

# **LANGUAGES**

I inux

English French Japanese Spanish



#### **HOBBIES**

Coding video games Music and cinema Traveling Football