

PAUL ESTANO

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EDUCATION

Selected Coursework

Deep Learning, Machine Learning, Statistical Machine Learning, Computer Vision, Digital Signal Processing, Probabilities, Statistics & Numerical Methods, Information Theory, Algorithmics, Ai & Big Data

Universite de Rennes 1, Rennes France

February 2022 - Current

PhD candidate

Computer Science

Georgia Institute of Technology, Atlanta Georgia

January 2019 - December 2020

Master of Science

Electrical & Computer Engineering

ENSEA, Cergy France

August 2016 - July 2020

Master of Engineering,

Ecole Nationale Supérieure de l'Electronique et de ses Applications

WORK EXPERIENCE

Inria, Rennes

February 2022 - Current

PhD Student

Supervised by Silviu-Ioan Filip, Elisa Riccietti, Steven Derrien & Guillaume Gravier

Work on the algorithmic/optimization aspects of reduced/mixed precision DNN training. A starting point is the investigation of gradient-based backpropagation methods and the development of mixed-precision variants, with a main focus of using dynamic and adaptive precision in order to enhance energy efficiency.

Arm, Manchester

February 2021 - February 2022

Graduate Software Engineer

Work in the Mali GPU software team. More specifically I work on the driver of Mali GPU G78AE and the virtualisation of Mali GPU G52, G76 and G78AE.

Georgia Institute of Technology, Atlanta

January 2020 - May 2020

Graduate Research Assistant

Developed algorithms and applications using AI for automatic detection and recognition/classification of transportation assets, including signs, pavement markings, guardrails, pavements, etc. and their condition assessment (e.g. retro-reflectivity, distresses, etc.) using 2D image and 3D lidar cloud data.

SAP, Paris

June 2019 - December 2019

Software Engineer Intern

Worked on SAP Intelligent Robotic Process Automation (IRPA) backend. More specifically, I built a user data analytics tool for the data management team of the application (repository team).

Georgia Tech Lorraine, Metz

January 2019 - May 2019

Graduate Teaching Assistant

Supervised 20+ students for a semester during Digital Electronics labs (ECE - 2031 Digital Design Lab).

General Electric Healthcare

April 2018 - August 2018

Software Engineer Intern

Implemented multiple tools facilitating the use of a cloud medical imaging platform developed by General Electric.

SKILLS

Programming Languages Python, C/C++, Java

Frameworks & Libraries Pytorch, JAX, Scikit-learn, Scipy

Interests Computer Vision, Deep Learning, Kernel development