

****** PhD Research Position in Bayesian Neural Networks based on GPU******

We are seeking an outstanding and highly motivated PhD student to join the Universidad Autónoma de Ciudad Juárez at Mexico, and contribute to a new project in the area of Bayesian Neural Networks based on GPU. More concretely, the project aims at Bayesian Neural Network architecture to achieve an efficient method focused on the fields of Bayesian statistics and machine learning, deep learning, and probabilistic programming.

The main tasks of the PhD researcher will be related to researching, planning, and designing a Bayesian Neural Network architecture. This includes research related to the design/framework of a system capable of enabling features such as computational graphs, distributed training, GPU/CPU integration, automatic integration and visualization. The PhD researcher will also be involved in parts of the development (programming) of a system accurate enough and sufficiently fast to provide practical power of Bayesian Neural Network based on GPU. Furthermore, the PhD student researcher will coordinate and co-supervise research assistants and BSc/MSc students who will help with programming (and design) tasks of different modeling techniques, variational inference, Monte Carlo, and Compositions of inference.

The PhD researcher will be working under the supervision of Dr. Ricardo Rodriguez Jorge and Dr. Rafael Torres Cordoba, and will join an active research team of undergraduate and graduate students.

Required Qualifications:

- . Msc. in Technology, Applied Computing, Mechatronics, or a related area
- . Research experience in or related areas
- . Strong publication record
- . Strong research skills
- . Strong software development skills
- . Interest in conducting applied research in education that benefits real-world learners
- . Strong verbal and written communication skills
- . Self-motivated with a strong work ethic and ability to work independently

Assets and Preferences:

- . Experience in mentoring/co-supervising undergraduate and graduate students
- . Project management skills
- . Experience and ability to design and build tools or systems
- . Experience in designing user interfaces and data visualization
- . Programming experience and skills in Matlab, Python, C++, Java
- . Programming experience and skills in developing client/server application in Java socket programming

Job Details:

- . Preferred start date is August, 2018, Option to start 1-2 months earlier or later can be negotiated.
- . The position is for 3 years, with the goal of applying for additional funding.

How to Apply:

Please send the following documents to Dr. Ricardo Rodriguez Jorge

- Motivation letter (including information about possible start date)
- A description about your previous and current research (max. 1 page)
- CV
- Names and contact information of three references
- 1-2 representative publications
- Deadline: March 02, 2018

Questions:

Please contact Dr. Ricardo Rodriguez Jorge