

Open Postdoc position, starting data January 1, 2021, salary 90,000 CAD/year:

Parallel and Communication Efficient Algorithms For Large-Scale Graph-Based Machine Learning

OpAL Lab, David R. Cheriton School of Computer Science, University of Waterloo

We are looking for a postdoctoral research associate for our research group at the University of Waterloo. Our goal is to develop parallel and communication efficient algorithms for large-scale graph-based machine learning. Example algorithms and applications include but not limited to: optimization algorithms for local graph clustering and optimization algorithms for training graph neural networks for node classification, link-prediction, community detection, graph classification and graph generation. The successful candidate will also collaborate with the Waterloo-Huawei Joint Innovation Lab and Assistant Professor Semih Salihoglu with the end goal to develop a new system or support existing systems on graph-based machine learning. The candidate will also be part of the Scientific Computation Group and the Waterloo Artificial Intelligence Institute.

Preferred education: PhD in one of the following or other relevant subjects: numerical optimization, scientific computing, parallel computing.

Preferred experience: Experience in implementation of numerical methods in shared/distributed memory computers and GPUs.

Additional information

- Location: We are located at the University of Waterloo, a vibrant technological hub with Concept, Velocity and Google around the block. More information about Waterloo here, although it's best if information about the region is communicated face-to-face by talking to members of our group or other residents of Waterloo.
- Timeline: We start reviewing applications immediately and until the position is filled (we'll mention this on opallab.ml). The position is initially one year, and will be extended if both parties are satisfied.
- Application: If you are interested in working with us as a postdoc, please send me an email. State briefly why you are interested and attach a CV. Important: please insert "Application Postdoc" in the subject line. If you are applying to a specific advertisement, note this in your email.
- Equity, diversity and inclusion: The University of Waterloo regards equity and diversity as an integral part of academic excellence and is committed to accessibility for all employees. As such, we encourage applications from women, persons with disabilities, Indigenous peoples, members of visible minorities, and others who may contribute to the further diversification of ideas. At Waterloo, you will have the opportunity to work across disciplines and collaborate with an international community of scholars and a diverse student body, situated in a rapidly growing community that has been termed a "hub of innovation."