

Hamidreza Ramezani-Kebrya

CONTACT INFORMATION	<i>Mobile:</i> +1-2368668422 <i>E-mail:</i> hamid@ece.ubc.ca	
WORK EXPERIENCE	TELUS	May 2023 to Dec 2023
	Network engineer	
	Project: Microtemplates: mediation mapping of data models	
	<ul style="list-style-type: none">• An SDN mediation layer is used to translate the vendor proprietary management of network equipment functions and protocols into an open and standard API into the network.• Use Cisco NSO to develop the mediation layer that is mainly made up of service and action packages.• Write automated tests to validate service and action packages.	
	Institute of Science and Technology Austria	Aug 2020 to Aug 2021
	Research intern	
	Project: QNCCL: Quantized NVIDIA Collective Communication Library	
	<ul style="list-style-type: none">• Add quantization scheme into NVIDIA Collective Communication Library.• Have 2x speed-up without losing significant accuracy.• Have 20% speed-up in training transformers when pytorch uses QNCCL as the communication backend.	
	Ecole Polytechnique Federale de Lausanne (EPFL)	June 2019 to Aug 2020
	Research intern	
DEGREES	University of British Columbia, Vancouver, Canada	January 2022 to now
	M.A.Sc., Computer Engineering GPA: 87.8/100	
	Amirkabir University of Technology	Sep 2014 to Oct 2019
	B.Sc., Computer Engineering GPA: 18.48/20	
PUBLICATIONS	Hamidreza Ramezanikebrya , and Matei Ripeanu. (re)Assessing PiM Effectiveness for Sequence Alignment. In 30th International European Conference on Parallel and Distributed Computing (Euro-Par'24), August 26–30, 2024 <i>Best paper award nominee</i> .	
	Ilia Markov, Hamidreza Ramezanikebrya , and Dan Alistarh. CGX: Adaptive System Support for Communication-Efficient Deep Learning. In 23rd International Middleware Conference (Middleware'22), November 7–11, 2022 <i>Best paper award runner-up</i> .	
TECHNICAL SKILLS	Programming and scripting Languages: Java, Scala, C, Cuda, Python, Bash, Expect, Tcl, Lux.	

HPC tools and models:

Roofline, Intel Advisor, Perf, RAPL, Likwid, OpenMP, PThreads.

Tools and IDEs:

Git, Gdb, Cuda-gdb, Vim, JetBrains developer tools, NetBeans, Eclipse.

Other:

L^AT_EX, Web development, Docker, Cisco NSO, Postman, Yang, CICD, Kubernetes, GKE, GCP, AWS, Helm, Terraform, Packer.