Artavazd Maranjyan

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Education

Ph.D. in Computer Science **Thuwal, Saudi Arabia**
King Abdullah University of Science and Technology (KAUST) *2023 – 2025*
Advisor: Peter Richtárik

M.Sc. in Applied Statistics and Data Science **Yerevan, Armenia**
Yerevan State University *2021 – 2023*
📄 **Thesis:** On local training methods; **co-supervisors:** Peter Richtárik, Mher Safaryan

B.Sc. in Informatics and Applied Mathematics **Yerevan, Armenia**
Yerevan State University *2017 – 2021*
📄 **Thesis:** On the Convergence of Series in Classical Systems; **supervisor:** Martin Grigoryan

Selected Industry and Academic Experiences

Research visit to Yi-Shuai Niu **Beijing, China**
Beijing Institute of Mathematical Sciences and Applications (BIMSA) *9-22 March 2025*
- Gave talks at three universities (PKU, BUAA, BIMSA)
- Worked with Professor Yi-Shuai Niu on a project on Server-Assisted Federated Learning

Internship in the group of Peter Richtárik **Thuwal, Saudi Arabia**
King Abdullah University of Science and Technology (KAUST) *June 2022 – January 2023*
- Worked on the "GradSkip: Communication-Accelerated Local Gradient Methods with Better Computational Complexity" paper

Co-Founder **Yerevan, Armenia**
OnePick *July 2021 – June 2022*
- Built an MVP platform to help content creators and marketers generate or select photos that best matched their text descriptions
- Participated in the InVent 2.0 venture building program, advancing through team formation, idea generation, product development, and pitching
- Secured initial funding and continued development beyond the program

Software Engineer in Test **Yerevan, Armenia**
Picsart *September 2019 – January 2021*
- Worked with automation team to design and develop automated solutions across several mobile/web applications
- Worked directly with software developers, test engineers, product owners, business analysts to find and resolve issues
- Worked closely with DevOps to suggest improvements in processes and in Jenkins Continuous Integration cycle

Reviewing

2024–Now   Transactions on Machine Learning Research (TMLR)
2026   International Conference on Learning Representations (ICLR)
2024   SIAM Journal on Mathematics of Data Science (SIMODS)
2024   The Journal of Machine Learning Research (JMLR)

Selected Talks

5.
35º Colóquio Brasileiro de Matemática **Rio de Janeiro, Brazil**
Instituto Nacional de Matemática Pura e Aplicada (IMPA) *July 27-31, 2025*
Delivered a talk and a poster on **Ringmaster ASGD: The First Asynchronous SGD with Optimal Time Complexity** [slides] [poster]

4. ***Federated Learning One World Seminar (FLOW)***   **Online**
FLOW Talk #126   *April 16, 2025*
Delivered a talk on **Ringmaster ASGD: The First Asynchronous SGD with Optimal Time Complexity** [video] [slides]

3. **MLR Weekly Seminar**   **Online**
Machine Learning Research at Apple   *November 21, 2024*
Invited by Samy Bengio to give a talk on **MindFlayer: Efficient Asynchronous Parallel SGD in the Presence of Heterogeneous and Random Worker Compute Times** [slides]

2. ***Algorithms & Computationally Intensive Inference seminars***   **Coventry, England**
University of Warwick   *October 6, 2023*
Delivered a talk on **GradSkip: Communication-Accelerated Local Gradient Methods with Better Computational Complexity** [slides]

1. ***Federated Learning One World Seminar (FLOW)***   **Online**
FLOW Talk #88   *December 7, 2022*
Delivered a talk on **GradSkip: Communication-Accelerated Local Gradient Methods with Better Computational Complexity** [video]

Hobbies

Ultimate Frisbee, Dancing (bachata, salsa), Board Games, Foosball