

Reza Babanezhad Harikandeh

Curriculum vitae

RESEARCH INTEREST

My main research interests are: Stochastic Optimization, Generative Models, Game Optimization, and Reinforcement Learning.

PUBLICATIONS

- V. S., B. R., et al., To Each Optimizer a Norm, To Each Norm its Generalization, ArXiv, 2020.
- R. L., B. R., et al., An Analysis of Causal Models Adaptation Speed, ArXiv, 2020.
- A. D., A. D. B. R., et al., Reducing the variance in online optimization by transporting past gradients, NeurIPS, 2019.
- D. A., B. E., B. R., Manifold Preserving Adversarial Learning, ArXiv, 2019.
- B., R., et. al., "MASAGA: A Linearly-Convergent Stochastic First-Order Method for Optimization on Manifolds", ECML, 2018.
- L. I., B. R., et.al., Domain Adaptation with Deep Metric Learning, ICML DAVU workshop, 2018.
- L. N., B. R., et. al., Online Variance Reduction, ICLR workshop track, 2018.
- Z. Z., B. R., Potinger, R., A Generic Top-N Recommendation Framework For Trading-off Accuracy, Novelty, and Coverage, ICDE, 2018.
- K. M. E., B. R., et. al., Faster Stochastic Variational Inference using Proximal-Gradient Methods with General Divergence Functions, UAI, 2016.
- B. R., et.al, Stop wasting my gradient: Practical SVRG, NIPS, 2015.
- S. M., B. R., et. al., Non-uniform stochastic average gradient method for training conditional random fields. AISTAT 2015.
- E. W., B. R., Denormalization Middleware for Database-as-a-Service, SOCA 2013.
- B. R., Y. M., R. R., Process Pattern for Web Engineering, COMPSAC 2010.

✉ Reza Babanezhad Harikandeh
Samsung AI Lab
Montreal, Canada
✉ babanezhad@gmail.com
✉ babanezhad.ca
✉ [Google Scholar](#)

EDUCATION

AUG 2020 – NOW	MILA POST-DOC
2014 – 2019	Machine Learning group PHD COMPUTER SCIENCE <i>Computer Science, UBC</i>
2011 – 2014	Software Practice Lab MSc(AND 1ST YEAR OF PHD) COMPUTER SCIENCE <i>Computer Science, UBC</i>
2008 – 2011	Software group M.Sc. SOFTWARE ENGINEERING <i>Software Engineering, Sharif University, Tehran/Iran</i>
2001 – 2006	Software group B.Sc. SOFTWARE ENGINEERING <i>Software Engineering, Sharif University, Tehran/Iran</i>

WORK EXPERIENCE

<i>Nov 2019-present</i>	Samsung AI Lab, Montreal, Canada Research Scientist Stochastic Optimization, Game Optimization, Causality
<i>Aug-Nov 2019</i>	Huawei, Montreal, Canada ML Researcher Compression techniques to compress Deep Neural Networks
<i>Sep-Dec 2017</i>	Google Brain, Montreal, Canada Research Intern in ML group Robust stochastic gradient descent
<i>Jan-Apr 2017</i>	Dwave System, Vancouver, Canada Research Intern in ML group Understanding and improving generalization in Deep Neural Networks

Jun-Sept 2016

Inria research center, Paris, France

Research Intern (MITACS Globalink Award):

Research Intern under supervision of **Francis Bach**,
specifically working on stochastic algorithms using
monotone operators for saddle point problem

2013-2014

Recon, Vancouver, BC, Canada

MITACS Intern: Enabling Spark as new big
data processing engine for the company

2010-2011

Miad Company, Tehran, Iran

Software Designer, Developer, Documenter

2006-2009

Avaan Company, Tehran, Iran

Software Designer, Developer

SKILLS

PROGRAMMING LANGUAGE	Java, Python, Matlab
TOOLS	Apache Spark, Tensor-Flow
LANGUAGE	English, Farsi

REFERENCES

- Simon Lacoste-Jullien
- Mark Schmidt
- Francis Bach
- Nicolas Le-Roux
- Eric Wholfstadsdtr
- Raman Ramsin