

Dominik CSIBA

PERSONAL DATA

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EDUCATION

- 2014 - 2017 | Doctorate Degree (PhD.) in OPTIMIZATION IN MACHINE LEARNING
School of Mathematics, UNIVERSITY OF EDINBURGH
Thesis :
Data Sampling Strategies in Stochastic Algorithms for Empirical Risk Minimization
1st supervisor : PETER RICHTÁRIK | 2nd supervisor: CHARLES SUTTON
- 2011 - 2014 | Undergraduate Degree (Bc.) in MATHEMATICS, with focus on PROBABILITY & STATISTICS
Faculty of Mathematics, Physics, and Informatics, COMENIUS UNIVERSITY, Bratislava
Thesis: *Fingerprint Recognition* | Advisor: ALENA BACHRATÁ

WORK EXPERIENCE

- SINCE 2017 | Team Leader for Algorithms at INNOVATRICS, Bratislava
- 2017 | Data Science Advisor at OPERAM, Bratislava
- SUMMER 2016 | Machine Learning Applied Scientist Intern at AMAZON, Berlin
Project: *Online Ad Allocation* | Manager: RODOLPHE JENATTON
- SUMMER 2013 | Research Intern at INNOVATRICS, Bratislava
Project: *Fingerprint Recognition* | Manager: JÁN LUNTER
- 2011 - 2017 | Marker at Slovak Mathematical Olympiad
marking solutions for regional and national rounds (400+ solutions)
- 2011 - 2017 | Volunteer at TROJSTEN, Bratislava
Slovak NGO woking with talented students in Mathematics, Physics and Informatics
collecting and selecting new mathematical problems (100+ problems) | marking and giving feedback on solutions (500+ solutions) | organizing week-long camps for 30-40 students (8 times) | giving talks for high-school students (20+ talks)

TEACHING EXPERIENCE

- 2017 - 2018 | Part-time teacher at *LEAF Academy*, Bratislava
teaching a class of AP Calculus BC, 15 students
- JAN 2017 | Mentor at *Basecamp* - Data Science Bootcamp organized by KNOYD, Vienna
12 hours on Introduction to Machine Learning and Optimization | voted as the best guest mentor
- APR 2016 | Lecturer for *Mathematics in Machine Learning*, COMENIUS UNIVERSITY, Bratislava
25 students and professionals | 20 hours of lectures + 10 hours of tutorials
- 2014 - 2016 | Teaching Assistant at UNIVERSITY OF EDINBURGH
PhD level: 2× Introduction to Research in Data Science | Msc. level: 2× Optimization Methods in Finance, Nonlinear Optimization, Modern Optimization Methods for Big Data Problems | Bc. level : Mathematics in Science and Engineering, 2× Numerical Linear Algebra and Applications, Fundamentals of Operations Research, Fundamentals of Optimization

ACHIEVEMENTS & SCHOLARSHIPS

MAY 2015	Best Contribution Award - 2 nd place at OPTIMIZATION AND BIG DATA 2015, Edinburgh Awarded for: <i>Stochastic Dual Coordinate Ascent with Adaptive Probabilities</i> Award Committee: ARKADI NEMIROVSKI (Georgia Institute of Technology), RODOLPHE JENATTON (Amazon Berlin)
2014 - 2018	Principal's Career Development Scholarship, UNIVERSITY OF EDINBURGH 14,000 GBP / year, awarded to top 3 incoming students in mathematics each year
MAY 2014	Best student work in Applied Informatics in Czech and Slovak Republic STUDENT SCIENCE CONFERENCE, Ústí nad Labem awarded for a work based on my bachelor thesis
JUL 2012	3 rd Prize, INTERNATIONAL MATHEMATICAL COMPETITION, Blagoevgrad, Bulgaria
SINCE 2012	International Master in CHESS
2011 - 2014	Excellence Scholarship, COMENIUS UNIVERSITY top 10% students: awarded 6 times, out of 6 possible
SEP 2010	Honorable mention at MIDDLE EUROPEAN MATHEMATICAL OLYMPIAD, Strecno, Slovakia

PAPERS

SEP 2017	Global Convergence of Arbitrary-Block Gradient Methods for Generalized Polyak-Lojasiewicz Functions D.C., PETER RICHTÁRIK, arXiv: 1709.03014
JUN 2016	Online Optimization and Regret Guarantees for Non-additive Long-term Constraints RODOLPHE JENATTON, JIM HUANG, , D.C., CEDRIC ARCHAMBEAU, arXiv: 1602.05394
MAY 2016	Coordinate Descent Faceoff: Primal or Dual? D.C., PETER RICHTÁRIK, arXiv: 1605.08982
FEB 2016	Importance Sampling for Minibatches D.C., PETER RICHTÁRIK, arXiv: 1602.02283
JUN 2015	Primal Method for ERM with Flexible Mini-batching Schemes and Non-convex Losses D.C., PETER RICHTÁRIK, arXiv: 1506.02227
FEB 2015	Stochastic Dual Coordinate Ascent with Adaptive Probabilities D.C., ZHENG QU, PETER RICHTÁRIK, ICML 2015

LANGUAGES

SLOVAK: Mother tongue	HUNGARIAN: Mother tongue
ENGLISH: Fluent	GERMAN: Basic Knowledge

PROGRAMMING

BASIC : C++, R, Ruby	ADVANCED: Python, MATLAB, Julia, \LaTeX
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