Dmitry V. Serdyuk

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Department of Computer Science and Operations Research

Personal

- Date of birth: May 29th 1990
- Citizenship: Russia

Education

- University of Montreal, Department of Computer Science and Operations Research
  Ph.D. student 2014 − present

  – Advisor: Yoshua Bengio
  – Area of study: Machine learning, deep learning

- Saint-Petersburg Academic University, Information technologies department
  M.Sc. student 2011 − 2013, graduated with distinction

  – Advisor: Sergey Nikolenko
  – Area of study: Machine learning
  – GPA: 4.00

- Saint-Petersburg State Politechnical University, Solid state physics department
  B.Sc. in Technical Physics, 2007 − 2011

  – Advisor: Alexander G. Banshikov
  – Area of study: Epitaxial dielectrics growth
  – GPA: 3.49

Additional Education

- Academy of Modern Software Engineering, 2009 − 2011
- Computer Science Student Club at PDMI, St. Petersburg, Active member since 2010

Experience

- Epitaxial dielectrics growth(working with Banschikov A.G.), 2008 − 2011
- Development of open source service for electronic book searching; creating online utility for converting text, html and doc files into ePub format (eBookSearch), 2010 − 2011
- Research in Bayesian rating systems with Sergey Nikolenko, 2011 − 2012
- Intern in EMC corporation(machine learning, statistical analysis and data science), 2012 − 2013
- Data scientist in Exigen Services, 2013 − 2014

Fields of Research Interest

Machine learning, Deep learning, Neural networks, Probabilistic Bayesian models, Graphical probabilistic models, Rating systems

Publications

- Bayesian Rating Systems with Additional Information on Tournament Results; Sergey Nikolenko, Alexander Sirotkin, Dmitriy Serdyuk; December 8, 2011 (authors in alphabetical order)

Conference and Seminar Presentations

- An Improvement of the Bayesian Rating System TrueSkill(TM) and its Fast Parallel Implementation; MLSS Kyoto, August 30, 2012

- Fundamentals of Optimization Problems; Sarntal Ferien-Akademie 2012

- Graphical models: Factor graphs, December 8, 2011

Filed patents

- Method for prediction of the duration of Garbage Collection for Backup Storage systems. (with Mark Chamness) $2012 - 2013$, during internship in EMC corporation.

Skills summary

- One year experience in working in team

- Experience in data aggregating and statistical analysis

- Machine learning algorithms, Theano, SQL, Greenplum, PL/R, MapReduce, Hadoop, SAP HANA

- Programming Languages:
    - C++
    - Java
    - R
    - Python
    - Ruby
    - Haskell

- Languages: Russian(native), English(advanced), French(elementary)

- Certificate: Advanced English course at the St. Petersburg Academic University in 2013