

EDUCATION

INRIA Sophia Antipolis, AxIS team and University of Nice, France

PhD in Computer Science

2008-2011

'Network-based solutions for expert finding'

- Proposed, implemented and evaluated a **user-oriented model** for expert finding (best paper award, Java, Mechanical Turk API, Hadoop)
- Proposed, implemented and evaluated a **Bayesian hierarchical model** for expert finding in professional social networks (Gibbs sampling for approximate posterior inference, Java, multithreading)
- Proposed and implemented an algorithm based on **personalized PageRank** for person name disambiguation in Web pages (took 2nd place in WePS-3 competition, Java, multithreading)

Saint-Petersburg State University, Russia

Master of Science, Applied Mathematics and Computer Science, with Honors

2003-2008

'An effective algorithm for Web-graph clustering'

R&D EXPERIENCE

Orange

Sophia Antipolis, France

Data Scientist, Orange Portal (www.orange.fr/portail)

2012-now

- Developed **videos recommendation engine** using collaborative filtering methods for "Video avec Dailymotion" (video-streaming.orange.fr, ~200 000 views/day, distributed implementation on Hadoop, +20% of CTR during A/B testing vs. content-based recommender)
- Developed **paid services** (VOD, TVOD, OCS) **recommendation engine** for "Programmes TV" using hybrid approach (programme-tv.orange.fr, ~500 000 views/day, **close to real-time updates**)
- Developed automatic construction of **demographics profiles of portal visitors** for targeted advertising on Orange Advertising network and content personalization of the portal using logistic regression (orangeadvertising.fr, ~ 26 million unique visitors/day)

Languages/Developer tools : **Hadoop, Pig, Oozie, Java, R**, Hive, Python, Perl, Shell, Mahout.

Intelius Inc.

Bellevue, US

Research Intern

summer 2011

- Proposed and implemented features for **machine learning model** for linkage of Intelius public records and LinkedIn public profiles.

Languages/Developer tools: **Python**, Java, Hadoop, Git.

Google France

Paris, France

Software Engineering Intern

summer 2009

- Proposed and implemented a model for optimization problem using **constraint programming** framework.

Languages/Developer tools: **C++**, Javascript, MapReduce, Perforce.

NebuAd Inc.

St. Petersburg, Russia

Researcher in Behavioral Targeting Advertising on the Web

2007-2008

- Developed stream **HTML page classifier**.
- Proposed and tested **models of user behavior** based on her browsing history.

Languages/Developer tools: **Java**, Perl, SQL, Shell, Mercurial, MySQL.

StarSoft Development Labs

St. Petersburg, Russia

Junior Java Software Engineer (part-time)

2006-2007

- Contributed to development of library management system.
- Developed unit-tests, implemented features from customer's requests.

Languages/Developer tools: **Java**, J2EE(EJB), Hibernate, JBoss, Tomcat, Ant, Perforce.

INRIA Sophia Antipolis, MAESTRO team

Sophia Antipolis, France

Research Intern

2007, 2008

- Participated in research on **effective graph clustering** algorithm.
- Conducted various experiments for algorithm evaluation on parts of Web-graph.
- Developed software for visualizing and analyzing large graphs using clustering.

Languages/Developer tools: **Java**, CVS, SQL, Oracle DB Server, Prefuse (open-source visualization library).

SOPHIA (SOPHisticated Information Analysis)

St. Petersburg, Russia

Research Student

2005-2008

- Participated in research on novel algorithm for **document clustering**.
- Conducted various experiments for algorithm evaluation on text collections.

Languages/Developer tools: **Java**, SQL, Microsoft SQLServer.

PUBLICATIONS

<i>First author, A Model for Expert Finding in Social Networks.</i>	2011
<i>First author, A User-Oriented Model for Expert Finding.</i>	2011
<i>First author, Using Web Graph Structure for Person Name Disambiguation.</i>	2010
<i>Co-author, Quick Detection of Top-k Personalized PageRank Lists.</i>	2011
<i>Co-author, PageRank based Clustering of Hypertext Document Collections.</i>	2008
<i>Co-author, Investigation into the stability of Contextual Document Clustering.</i>	2008
<i>Co-author, SOPHIA: A Knowledge discovery framework for textual Casebased Reasoning.</i>	2008

AWARDS

Best Paper Award by ECIR'11	2011
Machine Learning Summer School Scholarship	2010
Women in Machine Learning Scholarship	2010
CORDI fellowship by INRIA	2008
Anita Borg Scholarship by Google	2008, 2009

COURSES

Machine learning summer school	2010
Eye-tracking training, Tobii eye-tracker and Studio	2009
Joint Advanced Student School	2008
CBU Winter School in Information Technology	2008

LANGUAGES

Russian
English
French