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, <u>with Honors</u>   **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 <u>software</u> 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

First author, A Model for Expert Finding in Social Networks. SIGIR'11.   **2011**

First author, A User-Oriented Model for Expert Finding. ECIR'11.   **2011**

First author, Using Web Graph Structure for Person Name Disambiguation. WePS-3 at CLEF'10.   **2010**

Co-author, Quick Detection of Top-k Personalized PageRank Lists. WAW'11.   **2011**

Co-author, PageRank based Clustering of Hypertext Document Collections. SIGIR'08.   **2008**

Co-author, Investigation into the stability of Contextual Document Clustering. JASIST'08.   **2008**

Co-author, SOPHIA: A Knowledge discovery framework for textual Casebased Reasoning, KBS'08.   **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