Marina **Sergeeva**
DATA SCIENTIST

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Professional Experience

Capital One *McLean, VA*

PRINCIPAL ASSOCIATE, DATA SCIENCE *07/2019 - present*

Helping Data Scientists at Capital One build better models by:
- Developing tools to automatically challenge models and perform residual analysis
- Creating training on both soft and technical skills required to deliver successful data science projects

SENIOR ASSOCIATE, DATA SCIENCE *06/2016 - 06/2017, 12/2017 - 07/2019*

Served as a Data Scientist and Educator on the Academy of Data and Decision Science - an internal training organization. Created tools and training for ≈ 2000 Data Scientists and Analysts.
- Automated FAQ identification from slack messages to inform product stakeholders about gaps in user experiences and technical issues.
- Built and deployed an app for interactive feedback exploration to provide insights to content owners and reports to the leadership for improvement of content and engagement.
- Created an onboarding course and reimagined analysts' workflow in the new cloud-based platform for more than 2000 analysts.
- Facilitated the creation of nine new courses by engaging the community of practice and identifying learning needs and held in-person training sessions for ≈ 250 analysts.
- Organized four modeling competitions for Capital One associates, providing both technical and educational support for the participants. Updated infrastructure to support 10x growth in the number of participants.

Yandex *Moscow, Russia*

INTERN RESEARCHER IN MONETIZATION GROUP *10/2013 - 08/2014*

- Mapped the market structure of online advertisers by developing economic-based clustering: using historical data, analyzed the competition between advertisers for groups of keywords to update the pricing strategy for contextual advertisement
- Conducted an exploratory analysis of data on bounce behavior of users clicking on advertisements
- Analyzed results of experiments: ran tests to understand the effects of new pricing and displaying strategies for online advertisements on users' clicking behavior and revenue

PricewaterhouseCoopers *Moscow, Russia*

INTERN CONSULTANT *10/2011 - 04/2012*

- Developed business processes with detailed descriptions for tax departments of the leading Russian companies
- Conducted client interviews to learn the department structures and the current practices

Education

Carnegie Mellon University *Pittsburgh, PA*

M.S. IN BUSINESS TECHNOLOGIES (INFORMATION SYSTEMS) *08/2014 - 05/2016*

Completed courses from both Tepper School of Business and School of Computer Science

New Economic School *Moscow, Russia*

M.A. IN ECONOMICS *09/2012 - 06/2014*

Moscow State University *Moscow, Russia*

SPECIALIST IN APPLIED MATHEMATICS AND COMPUTER SCIENCE *09/2007 - 06/2012*

5 year degree with thesis, ≈ **M.S.**

Technical Skills

Programming languages	Python (sklearn, pandas, numpy, xgboost, keras, spaCy, flask)
	R (data.table, mgcv, bms)
	javascript (DC.js, D3.js), unix, java
Tools/technologies	git, sql, AWS (s3, ec2, emr, cloudformation)
Competences	Machine Learning, Statistics, Natural Language Processing, Econometrics

Awards

2019 **Awardee (29th out of 785)**, Google code jam to I/O
2018 **Awardee (8th out of 1165)**, Google code jam to I/O
2014-2016 **William Larimer Mellon fellowship**, Carnegie Melon University
2013-2014 **BP Scholarship**, New Economic School

Presentations

PyCon 2019 *Cleveland, OH*
SPEAKER *2019*
Lessons learned from building a community of Python users among thousands of analysts (with I-Kang Ding and Ariel M'ndange-Pfupfu).

Program Committees

2018 **Volunteer Coordinator**, PyData DC *Washington, DC*
2018 **Program Reviewer**, SciPy Conference *Austin, TX*

Volunteer Experience

Women Who Code *Washington, DC*
ALGORITHMS LEAD *01/2018 - present*
- Leading bi-weekly meetups where I teach algorithms and problem solving

Economics and Mathematics School, Moscow State University *Moscow, Russia*
MATH INSTRUCTOR *09/2007 - 05/2008*
- Led weekly recitations for senior high school students.
- Facilitated students' understanding of the upper-school level mathematics.
- Developed course materials: lectures, handouts, home assignments.

Academic Experience

Tepper School of Business, Carnegie Mellon University *Pittsburgh, PA*
TEACHING ASSISTANT IN DATA MINING *03/2016 - 05/2016*
- Constructed from scratch class-long demonstrations of machine learning methods in **R**
- Coached student teams on the course projects
- Created examples of applying data mining techniques to be used in the instructor's lectures
- Developed assignments relevant to the course topics

Tepper School of Business, Carnegie Mellon University *Pittsburgh, PA*
TEACHING ASSISTANT IN STRATEGIC IT *03/2016 - 05/2016*
- Provided written and oral feedback to MBA students
- Assessed students' comprehension of the course material

New Economic School *Moscow, Russia*
TEACHING ASSISTANT IN MATH FOR ECONOMISTS *09/2013 - 01/2014*
- Conducted weekly recitations and office hours for graduate students
- Graded quizzes and exams

Languages

English fluent
Russian native
German basic