

# Roman Beltiukov

MACHINE LEARNING RESEARCHER

Saint-Petersburg, Russia

December 8, 1995

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## Skills

**Machine Learning** Reinforcement Learning, Classic ML, Deep Learning, Computer Vision (+ OpenCV), TensorFlow, PyTorch

**Programming** Python, C#, C++/CUDA, SQL, LaTeX

**System administration** Windows Server, Linux (Debian-based), AD, Virtualization (Hyper-V, SCVMM, Xen), Network (Routing, Switching, Cisco), Data Storage systems (SAN)

**Languages** English, Russian

## Experience

### Research intern

JETBRAINS RESEARCH

- Research reinforcement learning approaches based on world model creating.

St. Petersburg, Russia

Oct. 2019 - now

### Python (programming language) tutor

HIGHER SCHOOL OF ENGINEERING

- Designed several Python courses for different kind of listeners.
- Semi-automated homework checking with unittests and GitHub.
- Wrote task book for Python learners with tasks ordered by complexity.

St. Petersburg, Russia

Sep. 2018 - now

### System administrator

HIGHER SCHOOL OF ENGINEERING

- Implemented failover solution for data storage network.
- Expanded and augmented existing virtual machines infrastructure.
- Automated multiple manual tasks with big Powershell or Python solutions.
- Deployed advanced network and infrastructure monitoring services (like IDS, IPAM, centralized logging, etc.).
- Expanded domain and infrastructure to several branch offices.
- Migrated multiple services to docker.
- Created solution for HTML5-based access to virtual machines on Hyper-V/SCVMM hosts.

St. Petersburg, Russia

Jul. 2015 - Jun. 2019

## Education

### SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

M.S. IN COMPUTER SCIENCE

- Thesis: Optimizing Q-learning with K-FAC algorithm

St. Petersburg, Russia

Sep. 2017 - Aug. 2019

### SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

B.S. IN COMPUTER SCIENCE

- Thrice student of the year
- Thesis: application of generative adversarial networks to music generation

St. Petersburg, Russia

Sep. 2013 - Aug. 2017

## Additional education & Courses

**Machine learning** Coursera (by Andrew Ng), score: 97.3%

**Probability theory** Stepik (by Computer Science Center)

**Statistics** Stepik (by Computer Science Center)

**Astrophysics** Coursera (by SPbPU), score: 88.9%

## Honors & Awards

INTERNATIONAL

- 2018 **Winner (individual)**, Student's competetion "World-IT-Planet", Cloud Computing track by Huawei
- 2018 **Runner-up (2nd place) in challenge (in-team)**, HackJunction, "Mobility" by QOCO
- 2017 **Winner (individual)**, Student's competetion "World-IT-Planet", Cloud Computing track by Huawei
- 2017 **Challenge winner (in-team)**, HackJunction, "Robots, learning machines" by Eficode and Bitville

*Tyumen, Russia*  
*Helsinki, Finland*  
*Sochi, Russia*  
*Helsinki, Finland*

## DOMESTIC

- 2018 **Special award (in-team) by Institute of Bioinformatics**, BioHack 2018 by EPAM Systems
- 2017 **Winner (in-team)**, Hackathon "Make your university 20.35"

*SPb, Russia*  
*SPb, Russia*

## Certifications

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### OPENEDG

- 2019 **Certified Associate in Python Programming**, Verification Code: 6iTz.Eo4D.sR6J

### MICROSOFT

- 2018 **Microsoft Certified Solutions Expert: Cloud Platform and Infrastructure**, Certification number: G878-5366
- 2018 **Microsoft Certified Solutions Associate: Windows Server 2016**, Certification number: G878-5139
- 2017 **Microsoft Certified Professional**, Certification number: G511-2245

### CISCO

- 2018 **Cisco CCNA Instructor**, Network Academy Instructor
- 2017 **Cisco Certified Network Associate Routing and Switching**, Certificate verification number: 432903347147JRBH

### HUAWEI

- 2017 **Huawei Certified Network Associate Storage**, Certificate number: 010100901680806862091409

## Publications

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Optimizing Q-learning with K-FAC Algorithm

Roman Beltiukov

*Communications in Computer and Information Science*, 2019