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## EKATERINA V. KOTLIAROVA

mobile: +7-910-242-47-94  
mail: [tamamo.liss@gmail.com](mailto:tamamo.liss@gmail.com)  
skype: [tamamo.lis](https://www.skype.com/name/tamamo.lis)  
telegram: [tamamoliss](https://www.telegram.me/tamamoliss)  
github: [tamamoliss](https://github.com/tamamoliss)  
linkedin: [ekaterina-kotliarova-95a270173](https://www.linkedin.com/in/ekaterina-kotliarova-95a270173)

### Professional knowledge

- Python 3
- Keras, tensorflow, pandas, scikit-learn, OpenCV
- Vizualizing my results with matplotlib and jupyter notebook
- Some experience in NLP



### Position desired

RnD-engineer

### Experience

**Junior-developer in State Research Institute of Aviation Systems (GosNIIAS), Laboratory of Photogrammetry, Moscow, November 2017 - April 2019**

I worked with computer vision, in particular, image semantic segmentation. My responsibilities included:

- data preparation for training, testing and validation of neural networks
- building modular semantic segmentation algorithms (for example: input image - input to a neural network, detecting boundaries - output image with boundaries - input to a segmentation network - output image)
- and more projects can be found on my [github](#)

**Research and Development Assistant at Huawei Technologies, Mathematical Modeling Competence Center, Moscow, April 2019 — present.**

My terms of reference include:

- data mining and preparation for training, testing and validation neural networks and machine learning models (numpy, pandas, etc)
- building neural network models in keras (rarely in tensorflow), tuning machine learning models (sklearn, scipy, etc)
- demographic research (in terms of machine learning)
- computer vision research: height detection of buildings by satellite images

### Education and Research

**Moscow Insitute of Physics and Technology, September 2019 —present, PhD student**

**Moscow Insitute of Physics and Technology, September 2017 —August 2019, master degree**

**Voronezh State University, September 2013 — August 2017, bachelor degree (honors diploma)**

- Participation in the conference "Dialogue" in 2018, paper can be seen [here](#) (in English)
  - Many other conferences and two papers in progress on semantic segmentation and mathematical modelling of traffic flows. Pre-print of my semantic segmentation paper (in Russian), code and results can be seen [here](#)
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