

## Curriculum vitae

1. Maxim Panov
2. Date of birth: 24.12.1988
3. Telephone: +79268146566
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5. Languages:

Russian – mother tongue

English – fluent

French – basic level

6. Education:

September 2006 – June 2012, Bachelor and Master at Moscow Institute of Physics and Technology, Department of Control and Applied Mathematics.

Grade: 5.0/5.0

Bachelor diploma: “Neutral point method for addressing missing values in two-class pattern recognition by support vector machines”.

Master diploma: “Adaptive design of experiments based on Gaussian processes regression”.

October 2012 – present, PhD at Moscow Institute of Physics and Technology, Department of Control and Applied Mathematics.

Topic: “Finite sample semiparametric Bernstein-von Mises theorem”.

Advisor: Professor Vladimir Spokoiny.

7. Research interests:

- Statistical inference, semiparametric inference
- Nonparametric statistics
- Hidden Markov Models
- Gaussian processes regression
- Bayesian methods

## 8. Professional career:

- Researcher, Institute for Information Transmission Problems of Russian Academy of Sciences (2010 – present)
- Researcher, Datadvance inc., Moscow (2011 – present)
- Junior researcher, PreMoLab laboratory at Moscow Institute of Physics and Technology (2012 – present)

## 9. Teaching:

- Seminars in applied statistics, Moscow Institute of Physics and Technology (autumn 2011)
- Practical work classes in statistics, Moscow Institute of Physics and Technology (spring 2012)
- Seminars in applied statistics, Moscow Institute of Physics and Technology (autumn 2012)
- Practical work classes in statistics, Moscow Institute of Physics and Technology (spring 2013)
- Seminars in applied statistics, Moscow Institute of Physics and Technology (autumn 2014)

## 10. Publications.

### Articles in referred journals:

- 1) Maxim Panov and Vladimir Spokoiny “Finite sample Bernstein-von Mises theorem for semiparametric problems”, accepted to Bayesian Analysis.
- 2) Maxim Panov and Vladimir Spokoiny “Critical dimension in semiparametric Bernstein - von Mises Theorem”, Proceedings of the Steklov Institute of Mathematics, 2014, Vol. 287, pp. 232-255.

### Conference proceedings:

- 1) Critical dimension in parametric and semiparametric Bernstein - von Mises Theorem – 2<sup>nd</sup> Conference of International Society of Nonparametric Statistics, Cadiz, Spain, June 12-16 2014.
- 2) Maxim Panov and Vladimir Spokoiny “Semiparametric Bernstein - von Mises Theorem” - SAMSI-CRM Workshop on Geometric Aspects of High-dimensional Inference, Research Triangle Park, NC, USA, March 31-April 2, 2014.
- 3) Maxim Panov and Vladimir Spokoiny "Critical dimension in semiparametric Bernstein - von Mises Theorem" - Conference on

Structural Inference in Statistics, September 17-19, 2013, Potsdam, Germany.

- 4) Maxim Panov and Vladimir Spokoiny "Critical dimension in semiparametric Bernstein - von Mises Theorem" - "Information technologies and systems - 2013" 36th conference of young scientists and specialists of IITP RAS, Kaliningrad, Russia, September 01-07 2013
- 5) Maxim Panov and Vladimir Spokoiny "About semiparametric estimation in bayesian setup" - 55th scientific conference of MIPT, Moscow, Russia, 2013.
- 6) Maxim Panov and Evgeny Burnaev. "Adaptive design of experiments based on Gaussian process regression". - "Intelligent information processing" (IIP-9). - Budva, Montenegro, September 16-22 2012.
- 7) Evgeny Burnaev, Ermek Kapushev, Ivan Konovalenko, Daniil Kononenko and Maxim Panov "Surrogate-based optimization based on Gaussian process ". - "Intelligent information processing" (IIP-9), Budva, Montenegro, September 16-22 2012.
- 8) Evgeny Burnaev, Maxim Panov, Daniil Kononenko and Ivan Konovalenko "Comparative analysis of optimization procedures based on Gaussian process regression". - "Information technologies and systems - 2012" 35th conference of young scientists and specialists of IITP RAS, Petrozavodsk, Russia, 2012.
- 9) Evgeny Burnaev and Maxim Panov. "Comparative analysis of criteria for adaptive design of experiments". - "Information technologies and systems - 2012" 35th conference of young scientists and specialists of IITP RAS, Petrozavodsk, Russia, 2012.
- 10) Maxim Panov, Alexander Tatarchuk, Vadim Mottl and David Windridge "A Modified Neutral Point Method for Kernel-based Fusion of Pattern-Recognition Modalities with Incomplete Data Sets". - 10th International Workshop, MCS 2011, Naples, Italy, June 15-17, 2011.
- 11) Maxim Panov, Evgeny Burnaev and Alexey Zaytsev "About possible Bayesian regularization in Gaussian process regression". - "Mathematical methods of pattern recognition-2011", Petrozavodsk, Russia, 2011.
- 12) Evgeny Burnaev, Maxim Panov and Ivan Konovalenko "Adaptive design of experiments for approximation problem". - 54th scientific conference of MIPT, Moscow, Russia, 2011.
- 13) Maxim Panov and Alexey Zaytsev "About choice of distance function in modelling of covariance function of Gaussian process". - 54th scientific conference of MIPT, Moscow, Russia, 2011.
- 14) Evgeny Burnaev, Alexey Zaytsev, Maxim Panov, Pavel Prikhodko and Yury Yanovich "Modelling of nonstationary covariance function of Gaussian process based on expansion in dictionary of parametric functions". - "Information technologies and systems - 2011" 34th conference of young scientists and specialists of IITP RAS, Gelendzhik, Russia, 2011.

- 15) Maxim Panov, Alexander Tatarchuk and Vadim Mottl “Neutral point method for addressing missing values in pattern recognition with support kernel machines.  $x$  векторов”. -“Intelligent information processing” (IIP-8). - Cyprus, Limassol, October 10-16 2010.
- 16) Evgeny Burnaev and Maxim Panov “About estimation of quality of approximation models”. - 53th scientific conference of MIPT, Moscow, Russia, 2010.