

## CURRICULUM VITAE: VALERIYA S. POTAPOVA

<b>Name</b>	Potapova
<b>First name</b>	Valeriya
<b>Place of birth</b>	Moscow
<b>Citizenship</b>	Russian Federation
<b>Marital status</b>	Single, no children
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<b>Current position</b>	Fourth-year PhD student at the Economics Department, School of Social Sciences, University of Manchester PhD Programme: Economics
<b>Degrees</b>	Bachelor in Applied Mathematics and Informatics, Higher School of Economics, Moscow, Russia, 2014  Master in Computer Science, Higher School of Economics Moscow, Russia, 2016
<b>Education</b> 2014 – 2016  2010 – 2014	MSc in Computer Science, Faculty of Computer Science, Higher School of Economics, Moscow, Russia. GPA: 4.8/5.0  BA in Applied Mathematics and Informatics, Faculty of Applied Mathematics and Informatics, Higher School of Economics Moscow, Russia. GPA: 4.0/5.0
<b>Scholarships and Awards</b>	The commended prize in the Economics Department's Excellence in Teaching Awards for 2019-2020  PhD Studentship (funded by the University of Manchester) 2017-2020  The third prize in the Alan Turing Contest in Theoretical Computer Science and Discrete Mathematics for Russian-speaking students (2016), organized by the St. Petersburg University, the St. Petersburg Branch of Steklov Institute of

	Mathematics, and Computer Science Club <a href="http://mit.spbau.ru/en/tuco2016final">http://mit.spbau.ru/en/tuco2016final</a>
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**BA thesis.** "Folk Theorem with Hyperbolic Discounting", 2014, Faculty of Applied Mathematics and Informatics, Higher School of Economics, Thesis Advisor: [Dr. Constantine S. Sorokin](#).

**MSc thesis.** "On Mathematical Problems in Steganography", Faculty of Computer Science, 2016, Higher School of Economics, Thesis Advisor: [Prof. Grigory A. Kabatiansky](#).

**PhD Research.** Dissertation topic: "Evolutionary Behavioural Finance".

PhD Supervisors:

- [Igor V. Evstigneev](#), Professor of Mathematical Economics, University of Manchester.
- [Goran Peskir](#), Professor of Probability, University of Manchester.

**Areas of research and expertise:** Mathematical Finance, Mathematical Economics, Game Theory, Information Theory, Computer Science, FinTech.

### Working Papers

- Evolution in Pecunia, [Swiss Finance Institute Research Paper 20-44](#), May 2020 (with [R. Amir](#), [I. Evstigneev](#), [T. Hens](#), and [K.R. Schenk-Hoppé](#)).
- Behavioral Equilibrium and Evolutionary Dynamics in Asset Markets, [Swiss Finance Institute Research Paper No. 20-19](#), April 2020 (with [I. Evstigneev](#), [T. Hens](#), and [K.R. Schenk-Hoppé](#)).

### Journal publications

- Compositional restricted multiple access channel, *Problems Inform. Transmission*, 54:2 (2018), 116–123 (with [E. Egorova](#)). [DOI](#)
- A Method for Constructing Parity-Check Matrices of Quasi-Cyclic LDPC Codes Over  $GF(q)$ , *Journal of Communications Technology and Electronics* (2018) 63, pp. 1524–1529 (with S. Kruglik and [A. Frolov](#)). [DOI](#)

### Participation in conferences

- On a Generalization of LRC Codes with Availability, *Proc. IEEE Information Theory Workshop (ITW)*, Kaohsiung, Taiwan. November 6-10, 2017 (with S. Kruglik, M. Dudina and [A. Frolov](#)).
- A method for constructing parity-check matrices of non-binary quasi-cyclic LDPC codes, *The Tenth International Workshop on Coding and Cryptography*, Saint-Petersburg, Russia, September 18-22, 2017 (with S. Kruglik and [A. Frolov](#)).
- Signature Codes for a Special Class of Multiple Access Channel, *Proceedings of the XV International Symposium "Problems of Redundancy in Information and Control Systems"*, Saint-Petersburg, Russia, 2016, pp. 26-29 (with [E. Egorova](#)).
- On Ryabko&Ryabko Asymptotically Optimal Steganographic Scheme, *Proceedings of the XV International Workshop on Algebraic and Combinatorial Coding Theory (ACCT 2016)*, Albena, Bulgaria, 2016, pp. 250-254.

- Covering Codes for Steganography and ZZW Construction, *Proceedings of the International Conference "Information technologies and systems"*, Sochi, Russia, 2015, pp. 381-385.

## References

<p>Professor <a href="#">Igor V. Evstigneev</a> (PhD Advisor) Professor of Mathematical Economics Economics Department University of Manchester Arthur Lewis Building, Oxford Road, Manchester M13 9PL, UK E-mail: <a href="mailto:igor.evstigneev@manchester.ac.uk">igor.evstigneev@manchester.ac.uk</a> Phone: +44 (0)161 275 4 275</p>	<p>Professor <a href="#">Goran Peskir</a> (PhD Advisor) Professor of Probability Mathematics Department University of Manchester Alan Turing Building, Oxford Road, Manchester M13 9PL, UK E-mail: <a href="mailto:Goran.Peskir@manchester.ac.uk">Goran.Peskir@manchester.ac.uk</a> Phone: +44 (0)161 306 3215</p>
<p>Professor <a href="#">Thorsten Hens</a> (Financial Economics, Mathematical Economics) Professor of Financial Economics Institute for Banking and Finance University of Zurich Plattenstr. 32, 8032 Zurich, Switzerland E-mail: <a href="mailto:thorsten.hens@bf.uzh.ch">thorsten.hens@bf.uzh.ch</a> Phone: +41 (0)44 634 37 06</p>	<p>Professor <a href="#">Rabah Amir</a> (Mathematical Economics, Game Theory) J. Edward Lundy Professor of Economics Department of Economics University of Iowa, Iowa City, IA 52242, USA E-mail: <a href="mailto:rabah-amir@uiowa.edu">rabah-amir@uiowa.edu</a> Phone: +1 (0)319 335 1230</p>
<p>Professor <a href="#">Grigory A. Kabatiansky</a> (Computer Science, Information Theory, Digital Security, FinTech) Professor of Computer Science Skolkovo Institute of Science and Technology (Skoltech) 30/1 Bolshoi boulevard, Skolkovo, 121205 Russian Federation E-mail: <a href="mailto:g.kabatyansky@skoltech.ru">g.kabatyansky@skoltech.ru</a> Phone: +7 (0)985 667 89 21</p>	<p>Professor <a href="#">Christopher C. Wallace</a> (Teaching) Professor of Economics Head of Department Economics Department University of Manchester Arthur Lewis Building, Oxford Road, Manchester M13 9PL, UK E-mail: <a href="mailto:christopher.wallace@manchester.ac.uk">christopher.wallace@manchester.ac.uk</a> Phone: +44 (0)161 306 8031</p>