

CURRICULUM VITAE: VALERIYA S. POTAPOVA

Name	Potapova
First name	Valeriya
Place of birth	Moscow
Citizenship	Russian Federation
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Current position	Fourth-year PhD student at the Economics Department, School of Social Sciences, University of Manchester PhD Programme: Economics
Degrees	Bachelor in Applied Mathematics and Informatics, Higher School of Economics, Moscow, Russia, 2014 Master in Computer Science, Higher School of Economics Moscow, Russia, 2016
Education 2014 – 2016	MSc in Computer Science, Faculty of Computer Science, Higher School of Economics, Moscow, Russia. GPA: 4.8/5.0
2010 – 2014	BA in Applied Mathematics and Informatics, Faculty of Applied Mathematics and Informatics, Higher School of Economics Moscow, Russia. GPA: 4.0/5.0
Employment 2015 – 2017	Research Intern, Institute for Information Transmission Problems, Russian Academy of Sciences, Moscow
2020 – present	Teaching Associate, Economics Department, University of Manchester.

Scholarships and Awards	<p>Commended Prize for Excellence in Teaching, Economics Teaching Assistant Awards, University of Manchester, 2019-2020</p> <p>PhD Scholarship funded by the University of Manchester, 2017-2020</p> <p>Third Prize, 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.</p>
Teaching Experience 2020 – present 2018 – 2020	<p>Teaching Associate, Economics Department, University of Manchester. Courses taught: “Econometrics”, “Microeconomics 1”, “Microeconomic Analysis 3”.</p> <p>Teaching Assistant, Economics Department, University of Manchester. Courses taught: “Advanced Mathematics for economists”, “Introduction into Mathematical Economics”</p>

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

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 Behavioral Finance".

PhD Supervisors:

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

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](#)). Accepted for publication in *Proceedings of the National Academy of Sciences of the United States of America, Special Issue "Evolutionary Models of Financial Markets"*, A.Lo and S.Levin, Eds., to appear in 2021.
- Unbeatable Strategies, Economics Discussion Paper Series, [EDP-21-01](#), University of Manchester, January 2021 (with [R. Amir](#) and [I. Evstigneev](#)).

Journal publications

- [Behavioral Equilibrium and Evolutionary Dynamics in Asset Markets](#), *Journal of Mathematical Economics*, 91 (2020), 121-135 (with [I. Evstigneev](#), [T. Hens](#), and [K.R. Schenk-Hoppé](#)). Open Access Publication.

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