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CURRICULUM VITAE: VALERIYA S. POTAPOVA

Name	Potapova
First name	Valeriya
Place of birth	Moscow
Citizenship	Russian Federation
Marital status	Single, no children
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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 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
Employement 2015 – 2017 2020 – present	Research Intern, Institute for Information Transmission Problems, Russian Academy of Sciences, Moscow Teaching Associate, Economics Department, University of Manchester.

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

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 Behavioural Finance".
PhD Supervisors:

- Igor V. Evstigneev, Professor of Mathematical Economics, University of Manchester.
- Goran Peskir, Professor of Probability, University of Manchester.

Working Papers

- Unbeatable Strategies, Economics Discussion Paper Series, EDP-21-01, University of Manchester, January 2021 (with R. Amir and I. Evstigneev).

Journal publications

- Evolution in Pecunia, *Proc. Nat. Acad. Sci. USA,* 118, No. 26 (2021)*, Special Issue "Evolutionary Models of Financial Markets", S.A. Levin and A.W. Lo, Eds.* (with R. Amir, I. Evstigneev, T. Hens, and K.R. Schenk-Hoppé). Open access publication.

- 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

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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	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
Professor Grigory A. Kabatiansky	Professor Christopher C. Wallace

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