

Education

- 2022–Present **Ph.D. in Computer Science**, *University of Notre Dame*
Research interests: natural language processing, deep learning on text data, imbalanced learning, low-resource AI
- 2018–2020 **M.A. in Applied Mathematics and Informatics**, *Higher School of Economics*
Research interests: political studies, online communities, computational social science, network science, natural language processing
- 2014–2018 **B.A. in Sociology**, *Higher School of Economics*
Research interests: political studies, online communities, computational social science

Academic Appointments

- 2021–2022 **Program Deputy Academic Supervisor**, *Master of Applied Statistics with Network Analysis*, International Laboratory for Applied Network Research, Higher School of Economics
- 2021–2022 **Head of Minor**, *Applied and Network Analytics*, Higher School of Economics
- 2020–2022 **Junior Research Fellow**, *International Laboratory for Applied Network Research*, Higher School of Economics
- 2017–2020 **Research Intern**, *International Laboratory for Applied Network Research*, Higher School of Economics

Teaching Experience

Course Instructor

- 2022 **Programming in R and Python**, *Master's Program Applied Statistics with Network Analysis*, Higher School of Economics
- 2022 **Statistical Consulting**, *Master's Program Applied Statistics with Network Analysis*, Higher School of Economics
- 2022 **Data Analysis in Sociology**, *Department of Sociology*, Higher School of Economics
- 2022 **Introduction to Analytical Programming**, *Minor Applied and Network Analytics*, Higher School of Economics
- 2021 **Programming in R and Python**, *Master's Program Applied Statistics with Network Analysis*, Higher School of Economics
- 2021 **Introduction to Programming in R and Python**, *Master's Program Master of Data and Network Analytics (Online, Coursera)*, Higher School of Economics
- 2021 **Introduction to Text Mining in R**, *Master's Program Master of Data and Network Analytics (Online, Coursera)*, Higher School of Economics
- 2021 **Introduction to Applied Analytics**, *Minor Applied and Network Analytics*, Higher School of Economics
- 2020 **Programming in R and Python**, *Master's Program Applied Statistics with Network Analysis*, Higher School of Economics

Teaching Assistant

- 2025 **AI for Social Good**, *Department of Computer Science and Engineering*, University of Notre Dame
- 2022 **Programming Paradigms**, *Department of Computer Science and Engineering*, University of Notre Dame
- 2021–2022 **Introduction to Probability Theory**, *Master's Program Master of Data and Network Analytics (Online, Coursera)*, Higher School of Economics
- 2021–2022 **Machine Learning: Basic Concepts**, *Master's Program Master of Data and Network Analytics (Online, Coursera)*, Higher School of Economics
- 2019–2020 **Data Analysis in Sociology**, *Department of Sociology*, Higher School of Economics

Publications

- 2026 Jonathan A Karr Jr, Grigorii Khvatskii, Ting Hua, Nitesh V Chawla (2026). Why AI Detection Fails for Academic Integrity *arXiv preprint arXiv:2608.11256*.
- 2026 Chawla, F., Chawla, A., Singh, R., Germino, J., & Khvatskii, G. (2026). Human-AI Co-Mentorship in Project-Based Learning: A Case Study in Financial Forecasting. *Presented at 2026 ASEE Annual Conference & Exposition, Charlotte, North Carolina*. 10.18260/1-2-59848.
- 2025 Nagar, T., Khvatskii, G., Sokol, A., & Chawla, N. V. (2025). Breaking Language Barriers: Equitable Performance in Multilingual Language Models. *arXiv preprint arXiv:2508.12662*.
- 2025 Khvatskii, G., García-Martínez, A., Pan, D., Belcher, M., Loera, G. M., & Pérez, D. P. (2025). Leveraging artificial intelligence to bridge gaps in pediatric oncology care for marginalized Spanish-speaking communities. In *Proceedings of the Thirty-Fourth International Joint Conference on Artificial Intelligence*.
- 2025 Khvatskii, G., Lee, Y. S., Angst, C., Gibbs, M., Landers, R., & Chawla, N. V. (2025). Do multimodal large language models understand welding? *Information Fusion*, 120, 103121.
- 2025 Khvatskii, G., Moniz, N., Doan, K. D., & Chawla, N. V. (2025). Class-aware contrastive optimization for imbalanced text classification. *Discover Data*, 3(1), 27.
- 2023 Zaytsev, D. G., Kuskova, V. V., Khvatsky, G. S., & Sokol, A. A. (2023). Searching for coherence in a fragmented field: Temporal and keywords network analysis in political science. *Network Science*, 11(1), 113-142. doi: 10.1017/nws.2022.39
- 2023 Kuskova, V. V., Zaytsev, D. G., Khvatsky, G. S., Sokol, A. A., Vorobeva, M. D., & Kamalov, R. A. (2023). Expanding the boundaries of interdisciplinary field: Contribution of Network Science journal to the development of network science. *Network Science*, 11(1), 65-97. doi: 10.1017/nws.2022.41
- 2023 Kuskova, V., Zaytsev, D., Khvatsky, G., & Sokol, A. (2023). Neural Network Modeling and What-If Scenarios: Applications for Market Development Forecasting. In *Applications in Reliability and Statistical Computing* (pp. 271-288).
- 2022 Khvatsky, G. S., Zaytsev, D. G., Kuskova, V. V., & Sokol, A. A. (2022). Computational Tools of Media Analysis for Corporate Policy Effectiveness Evaluation: Models and Their Reliability. In *Reliability and Maintainability Assessment of Industrial Systems: Assessment of Advanced Engineering Problems* (pp. 51-71). Springer.
- 2021 Kuskova, V., Zaytsev, D., Sokol, A., & Khvatsky, G. (2021). Neural Network Modeling and What-if Scenarios: Applications to Various-Term Sales Forecasts. In *Proceedings of the 26th ISSAT International Conference on Reliability and Quality in Design* (pp. 122-126).

- 2020 Zaytsev, D., Kuskova, V., Lushnikova, P., & Khvatsky, G. (2020). Cross-Efficiency of International Sanctions: Application of Data Envelopment Analysis and Network Methodology. In *Analysis of Images, Social Networks and Texts: 8th International Conference, AIST 2019* (pp. 72-82). Springer.
- 2020 Zaytsev, D., Khvatsky, G., Talovsky, N., & Kuskova, V. (2020). Network Analysis Methodology of Policy Actors Identification and Power Evaluation (The Case of the Unified State Exam Introduction in Russia). In *Network Algorithms, Data Mining, and Applications: NET, Moscow, Russia, May 2018* (pp. 231-244). Springer.
- 2019 Kuskova, V., Khvatsky, G., Zaytsev, D., & Talovsky, N. (2019). Multilevel Exponential Random Graph Models Application to Civil Participation Studies. In *Analysis of Images, Social Networks and Texts: 8th International Conference, AIST 2019* (pp. 265-275). Springer.
- 2019 Zaytsev, D., Talovsky, N., Kuskova, V., & Khvatsky, G. (2019). The Entity Name Identification in Classification Algorithm: Testing the Advocacy Coalition Framework by Document Analysis (The Case of Russian Civil Society Policy). In *Analysis of Images, Social Networks and Texts: 8th International Conference, AIST 2019* (pp. 276-288). Springer.