

# Vsevolod Suschevskiy

## Resumé

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### Education

**PhD Student at Technology and Social Behaviour** Northwestern University), USA, Evanston, 2022–2028  
I am working with [Noshir Contractor](#) at SONIC on Human-AI Interaction within Computer-Supported Cooperative Work And Social Computing lenses

**MSc Information Systems and Human-Computer Interaction (with distinction)** HSE 2020–2022  
University (National Research University Higher School of Economics), Russia,  
At HSE, I mostly focused on research-oriented HCI, machine learning and design courses.  
My thesis dealt with designing virtual labs on crowdsourcing platform to test UX and behavioral aspects of self-nudging. For my term project I worked on a conjoint experiment in R Shiny to explore the effect of different motivational types in interaction with social influence and geospatial information in Citizen Science project. Proposal draft is available at the [Open Science Framework](#) and [MVP is hosted on shinyapps](#).

**BA Sociology and Social Informatics, minor in Data Science**, HSE University (National Research University Higher School of Economics), Russia 2017–2020  
At HSE, I mostly focused on Analytical Sociology and Computational Social Science, courses in Information Systems, Social Network Analysis, Text Mining, and Agent-Based Modelling, scoring 7.99/10 GPA. I was at the top of my cohort at the Data Science minor.  
I dedicated my BSc thesis to studying how scientists with different disciplinary backgrounds collaborate, building co-authors' publication profiles based on connections venues they published in.

**Exchange term, Department of Information Science and Media Studies**, University of Bergen, Norway Aug–Dec 2019  
I completed multiple courses in CS and Technology-Enhanced Learning (30 ECTS), including a master's level [Research Topics in Technology Enhanced Learning](#) with a project on design-based research of [Cognitive Tutor for Python course](#), graded as Excellent. I also took an extra-curriculum 10 ETCS course [Knowledge Representation and Reasoning](#), where I learned Prolog and theory behind Knowledge-based AI.  
Was invited for an internship as a result.

**Sociology**, Immanuel Kant Baltic Federal University Sep–Dec 2016  
I enrolled on a state-funded place, but transferred after the first semester, as I wanted to specialize in Social Informatics and Computational Social Science.

### Research and Professional Experience

**ATLAS lab in Northwestern University**, Graduate Research Assistant, Supervisor: Leslie DeChurch Mar - Aug 2023  
Designing virtual lab experiment for studying human AI teams. Yes we use GPT 3.5

**The Science of Networks in Communities (SONIC) in Northwestern University**, Graduate Research Assistant, Supervisor: Noshir Contractor 2022–2028  
Social Network Analysis of Human-AI collaboration (The Signatures of Success in Human-Agent Teams)

**Centre for the Science of Learning & Technology (SLATE) in University of Bergen**, Research intern, Supervisor: Dr. Mohammad Khalil 2020–2021  
Create course recommendation system for exchange students ([CERES](#))  
Took several interviews with exchange students  
Set up an experiment to test perception of different course recommendation algorithms by students  
Co-authored a [poster/paper](#) for Learning Analytics and Knowledge 2021 conference  
Did a statistical analysis of the classroom intervention using Mixed Models for clustering and SEM to explain connection between learner's motivation, app usage and learning outcomes.

**Data Science minor at HSE University**, Invited Lecturer 2020–2022  
Prepared seminars on introduction to Data Science, created interactive tutor exercises.  
Participated in learning design for transferring the course to online mode. Working on the tools to support team preference elicitation and matching and reflective prompts to support team self-regulation throughout the group project.

**Core Analytics at VK (ВКонтакте)**, Research internship Jul–Sep 2021  
Population scale computational social science and SNA with the help of ego-graph models.

Validating Robin Dunbar's concepts of social circles on dyadic interactions, examining dynamics of social circles. I proposed to study further perception of privacy at this social networking platform, since some groups of users have not completely filled circles, while others miss support clique.

**Machine Learning and Social Computing Research and Study Group at HSE University,** 2017–2018;  
Junior member, Supervisor: Prof. A. Suvorova 2019–2020  
My main Project was related to Social Network Analysis of eSports transfers with ERGMs (with I. Musabirov)  
I also worked on tutorials for junior students on Bayesian network analysis and xAI and model interpretation for Data Science minor

**HSE University,** Teaching assistant 2017–2020  
*Data Science minor (2018-2019), Lecturer: Prof. A. Suvorova*  
Developed and taught Tutorial on data visualization with ggplot2 and date-time data processing with lubridate.  
Composed and assessed tests  
*Agent-Based Modeling (2018-2019, 2019-2020), Lecturer: I. Musabirov*  
Developed a set of exercises on different ways to define agent logics (probabilistic models, decision rules) and integrate decision theories (TPB, DBI, DBO, RL) into ABM framework, developed a module on Agent-based network models, curated NetLogo models collection for the course, held tutorials in Zoom and MS Teams

## Extracurricular Schools & Courses

**Summer Institute in Computational Social Science-London** (University College London, June 2021  
Online)  
Launched survey on a crowdworking platform Mechanical Turk, and analysed results with post-stratification approach. Tried to build online experiment in Empirica virtual lab.  
Lecturers: Joshua Becker et. al

**ESSA-BEHAVE Summer School on Agent-Based Modeling** (Online) Sep 2020  
I completed an Advanced track (3ECTS, Graduate level) with a focus on theory development and empirical research with ABM, agent-based network models, calibration and validation of ABM. School director: Prof. F. Squazzoni (University of Milan)

**IPSA – HSE Summer School for Methods of Political & Social Research** (Online) Aug 2021  
I finished course on Experimental Methods in the Social Science, and wrote a proposal for a field experiment, combining social influence and social circles.  
Lecturers: Dr. Israel Marques II

**SNA CONNECT 2021 on Dynamic Network Actor Models** (Online) May 2021  
I learned how to use new parameters in DyNAMs to model time windows and changes in the nodes attributes.  
Lecturers: Christoph Stadtfeld and Alvaro Uzaheta

**Social Simulation Conference** (Stockholm, Sweden) Aug 2018  
Using theories on human decision-making in ABMs

**Networks in the Global World 2018** (St.Petersburg, Russia) July 2018  
Estimating dynamic network actor models (DyNAMs) with the goldfish software

**XXXVIII Sunbelt Conference**, (Utrecht, Netherlands) June 2018  
Introduction to ERGMs using statnet

**Introduction to Reinforcement Learning in Python**, Coursera Project Network Jan 2021

**Experimental Design Basics**, Arizona State University, Coursera Jan 2021

**Computer Simulations**, University of California, Coursera Aug 2020

**Social and Economic Networks: Models and Analysis**, Stanford University, Coursera Dec 2019

**Model Thinking**, University of Michigan, Coursera Oct 2019

## Conference Publications & Presentations

- [1] Experiments in Designing Personalized Motivational Systems  
Vsevolod Sushevskiy, Ilya Musabirov  
*Lambert Conference on the Future of Human-Computer Interaction + Design, Evanston, US* Poster <https://hci.northwestern.edu/news-events/colloquia-special-events/2022-lambert-conference.html>, 2022
- [2] Creating a Course Recommendation System for Exchange Students  
Vsevolod Sushevskiy, Mohammad Khalil

- [3] Teaching Undergraduate Sociologists Modeling and Computational Thinking  
Ilya Musabirov, Vsevolod Suschevskiy  
*Proceedings of the 51st ACM Technical Symposium on Computer Science Education*, 2020. DOI: [10.1145/3328778.3372687](https://doi.org/10.1145/3328778.3372687)
- [4] Analysis of Players Transfers in Esports. The Case of Dota 2  
Ekaterina Marchenko, Vsevolod Suschevskiy  
*Proceedings of the 22nd International Academic Mindtrek Conference*, 2018. DOI: [10.1145/3275116.3275151](https://doi.org/10.1145/3275116.3275151)
- [5] Network Analysis of Players Transfers in eSports: The Case of Dota 2  
Vsevolod Suschevskiy, Ekaterina Marchenko  
*Digital Transformation and Global Society*, 2018. DOI: [10.1007/978-3-030-02843-5\\_38](https://doi.org/10.1007/978-3-030-02843-5_38)
- [6] Agent-Based Modeling of Transfers Between Teams in Esports  
Vsevolod Suschevskiy, Ilya Musabirov  
*Virtual Sunbelt*, Virtual poster, <http://www.pfeffer.at/sunbelt/talks/1092.html>, 2020
- [7] Network Analysis of Global Transfers in Dota 2  
Vsevolod Suschevskiy, Ilya Musabirov, Denis Buligin, Ekaterina Marchenko  
*5th International Conference on Computational Social Science, Amsterdam, Netherlands*, Poster, <https://2019.ic2s2.org/posters/>, 2019
- [8] Network Analysis of Players Transfers in eSports. The case of Dota 2  
Vsevolod Suschevskiy, Ekaterina Marchenko  
*XXXVIII SUNBELT Conference of the International Network for Social Network Analysis, Utrecht, Netherlands*, Poster <https://sunbelt.sites.uu.nl/>, 2018

## Scholarships and Awards

|   |           |
|---|-----------|
| <b>Toloka Research Grant</b> (Yandex LLC) It is supported my MSc thesis experimental research on behavioural nudges and boosts.   | Feb 2022  |
| <b>State-funded place</b> at MSc programme Information Systems and Human-Computer Interaction, ranked 1 <sup>st</sup> out of 92 at admission, HSE University                      | Sep 2020  |
| <b>Exchange Scholarship</b> in the framework of Capacity Building in Technology Enhanced Learning Project, University of Bergen   | Aug 2019  |
| <b>Travel grant</b> for presenting poster at The 51 <sup>st</sup> ACM Technical Symposium on Computer Science Education, Portland, OR, USA, HSE University                        | Mar 2020  |
| <b>Travel grant</b> for presenting a poster at 5 <sup>th</sup> International Conference on Computational Social Science, University of Amsterdam, The Netherlands, HSE University | Jul 2019  |
| <b>50% tuition fee scholarship</b> for the top of a cohort by GPA, HSE University   | 2018-2020 |

## Volunteer Experience

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|---|-----------|
| <b>HELPDESK.MEDIA</b> , Volunteer   | Sep 2022  |
| Consulting on how to leave, evacuate, protect yourself from war or police, transfer money, or set up a VPN. |           |
| <b>Women Data Leaders in Russia</b> , Co-ambassador   | 2018–2020 |
| Organization of poster section at the Women in Data Science at HSE conference                               |           |
| Interview with Jana Diesner and Milena Tsvetkova  |           |
| Edited interviews for <a href="#">YouTube channel</a> to encourage more people in Data Science              |           |

## Computational literacy

Data analysis: R (**tidyverse**, *igraph*, *rvest*, *bnlearn*, *ERGM*); Python (*pandas*, *pyspark*, *networkx*);  
 Machine Learning: R (**tidymodels**, *rpart*, *LDA*, *stm*); Python (*Tensorflow*, *spacy*, *gensim*);  
 Visualization: R (*ggplot2*, *visNetwork*, *plotly*, *shinydashboard*), Tableau; Python (*Seaborn*, *Plotly*);  
 Interactive web apps: **R shiny**  
 Data bases: SQL – ClickHouse, MongoDB, noSQL – Elasticsearch;  
 System administration: Linux (Ubuntu), [Github](#);  
 Desktop publishing:  $\text{\LaTeX}$ ;  
 Other: **NetLogo** (Agent-Based Modeling), Prolog (First-order logic, Knowledge representation);

Media editing: Adobe Premiere Pro, Adobe After Effects, Adobe Photoshop, Open Broadcast Software;

## Languages

Mother tongue: **Russian**

Other Languages: **English** – C1 (7.5), (IELTS, Dec 2019; IELTS, Nov 2021),

**Esperanto** – studying for fun

**Danish** – 100 days on duo lingo