

# Vsevolod Suschevskiy



## Research and Professional Experience

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### **SONIC lab at Northwestern University**

June 2022 - present

*Graduate Research Assistant*

Evanston, IL

- Advisor: Noshir Contractor
- Data-Driven research of Human-AI Communication in teams, using multilayer-ERGMs (paper in progress)
- Designing Transition from Wizard of OZ style experiment to a digital experiment powered by LLMs and deployed on Empirica.ly platform (MVP ready)
- Interactive survey to study unfriending at Facebook (pre-pilot)
- Grant proposal writing
- Undergraduate interns supervision

### **ATLAS lab at Northwestern University**

Mar. - Aug. 2023

*Graduate Research Assistant*

Evanston, IL

- Advisor: Leslie DeChurch
- Designing virtual lab experiment for studying collaboration in Human-AI teams

### **Northwestern University**

Mar. - Dec. 2023

*Graduate Teaching Assistant*

Evanston, IL

- COMP SCI 330: Human-Computer Interaction; Prof.: Matthew Kay
- 200+ undergraduate students; lo-fi paper prototyping; Figma
- MSC 492: Leading & Leveraging Networks; Prof.: Noshir Contractor
- 50+ graduate students;

### **Core Analytics at VK**

July - Sep. 2021

*Research Internship*

St. Petersburg, Russia

- Population Scale Social Network Analysis: Validating Robin Dunbar's concepts of social circles on dyadic interactions, examining dynamics of social circles. Privacy-focused design recommendations.
- [VK Teach Talk video \(in Russian\)](#).

### **SLATE Center at University of Bergen**

Jan. 2020 – Jun. 2021

*Research Assistant*

Bergen, Norway

- Supervisor: Dr. Mohammad Khalil
- Created **course recommendation system** for exchange students, using Shiny, Elasticsearch, and TensorFlow.
- 10+ Think aloud interviews, 50+ user test participants

**HSE University**

Sept. 2020 – Jun. 2022

*Lecturer*

St.Petersburg, Russia

- Data Science Minor: CS0 and CS1 for non-STEM majors; tidyverse, tidymodels, shiny; offline to online transition
- MSc UX Analytics and Information System Design: Research Seminar; Intro to experiments in HCI
- MSc Data Analytics for Politics and Society: 15+ graduate students; sklearn, pandas, crowdsourcing

**European University At St. Petersburg**

Mar. – Jun. 2022

*Lecturer*

St.Petersburg, Russia

- Data Visualization: MSc Applied Data Analysis (PANDAN); Grammar of Graphics, ggplot2, tableau; 20+ professional and graduate students

**SocComp research group at HSE University**

2017–2018; 2019–2020

*Junior member*

St.Petersburg, Russia

- Supervisor: Prof. Alena Suvorova
- Tutorials for junior students on Bayesian network analysis and xAI, and model interpretation for Data Science minor
- Supervisor: Ilya Musabirov
- Social Network Analysis of eSports transfers in Dota 2 with ERGMs

**HSE University**

2017 Sep. – Jun. 2020

*Teaching Assistant*

St.Petersburg, Russia

- Data Science minor: tutorial, grading
- Theory Construction and Model Building: Undergraduate elective for Sociology Major students; Integration of theoretical frameworks, e.g. Desire-belief-opportunity, Theory of Planned behavior, Bounded rationality with Computational representation, e.g. production rules, probabilistic models; NetLogo.

**Education**

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**Northwestern University**

June 2022 – present

*PhD Student in Technology and Social Behavior*

Evanston, IL

- Advisor: Noshir Contractor
- Dissertation TBA

**HSE University**

Sept. 2020 – Jun. 2022

*MSc Information Systems and Human-Computer Interaction*

St.Petersburg, Russia

- Advisor: Ilya Musabirov, Alena Suvorova
- Dissertation: "Experiments in Designing Personalized Motivational Systems" is a set of virtual labs designed to test the idea of self-nudging in crowdsource workers settings

**University of Bergen**

Aug. – Dec. 2019

*Exchange term*

Bergen, Norway

- Research Topics in Technology Enhanced Learning, Knowledge Representation and Reasoning

## HSE University

*BA Sociology and Social Informatics*

Jan. 2017 – Jun. 2020

St.Petersburg, Russia

- Advisor: Ilya Musabirov
- Dissertation: "Computational Modelling Frameworks in Sociology: Scientometric Analysis" is the science of science work on how researchers transfer their epistemic beliefs from the original discipline into applied theoretical frameworks and computational representations

## Immanuel Kant Baltic Federal University

*Sociology*

Sep. – Dec. 2016

Kaliningrad, Russia

- State-funded place, but transferred after the first semester

## Volunteer Experience

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### HELPPDESK.MEDIA

Sept. 2022

- Provided consultations on how to safely escape areas affected by war.

### Women Data Leaders in Russia

Sept. 2018 – Jun. 2020

- Organized poster session; Interviewed Jana Diesner and Milena Tsvetkova; Edited video for youtube channel

## Skills

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**Data analysis** : R (**tidyverse**, igraph, rvest, bnlearn, ERGM); Python (pandas, pyspark, networkx)

**Machine Learning** : R (**tidymodels**, rpart, LDA, STM); Python (Tensorflow, spacy, gensim, huggingface, LLMs)

**Visualization** : R (ggplot2, visNetwork, plotly, shinydashboard), Tableau; Python (Seaborn, Plotly)

**Interactive web apps** : R (Shiny), JavaScript (empirica.ly)

**Data Bases** : SQL (ClickHouse, MongoDB), noSQL (Elasticsearch)

**All other random stuff** : Linux, AWS, git, NetLogo, Prolog, Open Broadcast Software, Adobe Premiere Pro,  $\text{\LaTeX}$

## Languages

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**Russian** : Native

**English** : C1/C2

**French** : beginner

## Publications

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- Sushevskiy, Vsevolod** & Khalil, M. (2021). Creating a Course Recommendation System for Exchange Students. *Companion Proceedings 11th International Conference on Learning Analytics & Knowledge (LAK21)*. [https://www.researchgate.net/publication/350874550\\_Creating\\_a\\_Course\\_Recommendation\\_System\\_for\\_Exchange\\_Students](https://www.researchgate.net/publication/350874550_Creating_a_Course_Recommendation_System_for_Exchange_Students)
- Musabirov, I., & **Sushevskiy, Vsevolod**. (2020). Teaching Undergraduate Sociologists Modeling and Computational Thinking. *Proceedings of the 51st ACM Technical Symposium on Computer Science Education*, 1368. <https://doi.org/10.1145/3328778.3372687>
- Marchenko, E., & **Sushevskiy, Vsevolod**. (2018). Analysis of Players Transfers in Esports. The Case of Dota 2. *Proceedings of the 22nd International Academic Mindtrek Conference*, 255–257. <https://doi.org/10.1145/3275116.3275151>
- Sushevskiy, Vsevolod** & Marchenko, E. (2018). Network Analysis of Players Transfers in eSports: The Case of Dota 2. In D. A. Alexandrov, A. V. Boukhanovsky, A. V. Chugunov, Y. Kabanov, & O. Koltsova (Eds.), *Digital Transformation and Global Society* (pp. 468–473). Springer International Publishing. [https://doi.org/10.1007/978-3-030-02843-5\\_38](https://doi.org/10.1007/978-3-030-02843-5_38)

## Conference presentations

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- Sushevskiy, Vsevolod**, Javalagi, A., Sean, F., Hoshi, F., Cueva, X. L., Garcia, J., DeChurch, L., & Contractor, N. (2023). [https://bit.ly/CODE2023\\_STRONG](https://bit.ly/CODE2023_STRONG) [Oral Presentation] at 2023 Conference on Digital Experimentation @ MIT (CODE@MIT). [https://bit.ly/CODE2023\\_STRONG](https://bit.ly/CODE2023_STRONG)
- Sushevskiy, Vsevolod**, Larson, L., Malte, J., DeChurch, L., & Contractor, N. (2023). Exploring the Structure of Human-AI Interaction Networks: The Impact of AI Teammate Modes on Collaboration and Performance [Poster Presentation] at The International Conference for Computational Social Science (IC2S2). [https://bit.ly/STRONG\\_IC2S2\\_2023](https://bit.ly/STRONG_IC2S2_2023)
- Sushevskiy, Vsevolod** & Musabirov, I. (2022). Experiments in Designing Personalized Motivational Systems [Poster Presentation] at Lambert Conference on the Future of Human-Computer Interaction + Design, Evanston]. [https://bit.ly/HCI\\_D\\_EXPERIMENT](https://bit.ly/HCI_D_EXPERIMENT)
- Musabirov, I., & Sushevskiy, V. (2020). Teaching Undergraduate Sociologists Modeling and Computational Thinking [Portland, Oregon, USA, Poster].
- Sushevskiy, V., & Musabirov, I. (2020). Agent-Based Modeling of Transfers Between Teams in Esports [Virtual poster, <http://www.pfeffer.at/sunbelt/talks/1092.html>].
- Sushevskiy, V., Musabirov, I., Buligin, D., & Marchenko, E. (2019). Network Analysis of Global Transfers in Dota 2 [Amsterdam, Netherlands, Poster, <https://2019.ic2s2.org/posters/>].