



Georgiy Solomanchuk

Nationality: Ukrainian | **Gender:** Male | **Email address:** georgiy_solomanchuk@brown.edu

EDUCATION AND TRAINING

04/08/2025 – CURRENT Providence, United States

PHD IN ECONOMICS Brown University

Website <https://economics.brown.edu/academics/graduate>

20/08/2023 – 15/07/2024 Abu Dhabi, United Arab Emirates

MSC IN ECONOMICS New York University Abu Dhabi

Fall term (GPA 4.0/4.0): Relevant coursework and grades: Microeconomics (4.0/4.0), Macroeconomics (4.0/4.0), Statistics & Probability (4.0/4.0), Mathematics (4.0/4.0), Development Economics (4.0/4.0).

Spring and Summer term (GPA 4.0/4.0): Microeconomics 2 (4.0/4.0), Macroeconomics 2 (4.0/4.0), Econometrics (4.0/4.0), Mathematics 2 (4.0/4.0), Final research project on the topic «Evolution of Social preferences: The comparison of media influenced and uninfluenced dynamics» (4.0/4.0).

Website <https://nyuad.nyu.edu/en/admissions/graduate/msc-economics.html> | **Field of study** Economics | **Final grade** 4.0/4.0 |

Thesis Evolution of Social preferences. The comparison of media influenced and uninfluenced dynamics

31/08/2017 – 15/07/2022 Kyiv, Ukraine

BACHELOR OF APPLIED MATHEMATICS National University of Kyiv-Mohyla Academy

Relevant Coursework: Discrete Mathematics, Calculus, Probability Theory, Statistics, Differential Equations, Methods of Optimizations and Research of Operations, Theory of Algorithms and Mathematical Logic, Control Theory, Programming, Data Analysis.

Awards: National Scholarship for 2017-2018 and 2019-2022; Academic Exchanges to Ukrainian Catholic University (Fall 2020) and Europa Universität Viadrina (Germany, Fall 2021- Winter 2022).

(Academic leave from Fall 2018 to Summer 2019)

Address Skovorody Street , 2, 04655, Kyiv, Ukraine | **Website** <https://www.ukma.edu.ua/eng/> | **Final grade** 95.31/100 |

Thesis Risk modelling approaches for Student-like models with fractal activity time

29/08/2020 – 25/11/2020 Lviv, Ukraine

EXCHANGE STUDENT Ukrainian Catholic University

Address Ilariona Svjentsits'koho Street, 17, 79000, Lviv, Ukraine | **Website** <https://ucu.edu.ua/en/> |

Field of study Computer Science

07/09/2018 – 26/06/2019 Kyiv, Ukraine

STUDENT Ukrainian Leadership Academy

A 10-month informal development education program for high school graduates, built on the example of the Israeli Mechinat and supported by Western NIS Enterprise Fund, USAID, Ukrainian government and Ukrainian Business. Took place partially in Ukraine, partially in Israel and partially in Belgium.

- Developed and managed social projects aimed at improving community well-being.
- Volunteered in various initiatives, contributing time and effort to community development.
- Participated in survival camps, enhancing leadership, teamwork, and problem-solving skills in challenging environments.

Address Molodohvardiiska St, 32, 03151, Kyiv, Ukraine | **Website** <https://ual.ua/en/>

WORK EXPERIENCE

RESEARCH ASSISTANT IN THE DIVISION OF SOCIAL SCIENCES – NEW YORK UNIVERSITY ABU DHABI – 01/11/2024 – 03/08/2025 – ABU DHABI, UNITED ARAB EMIRATES

- Proofread and improve existing mathematical proofs for an academic book on majority voting.
- Develop new mathematical proofs related to voting theory.
- Conduct computer simulations to get numerical results.
- Create visualizations (graphs, charts, tables etc.).
- Collaborate with researchers, attend seminars and contribute to reports.

TEACHING ASSISTANT – FACULTY OF ECONOMICS EUROPA UNIVERSITÄT VIADRINA – 01/10/2022 – 31/07/2023 – FRANKFURT (ODER), GERMANY

- Prepared and conducted Mathematics Tutorials in German language for a group of 20 college students.
- Developed exercises for Mathematics recitations and individual work of the students, which helped them to understand mathematical concepts necessary for their future Economics-related studies.

MATH TUTOR – ONLINE SELF-EMPLOYED – 11/06/2020 – 17/07/2023 – (ONLINE) TORONTO, CANADA

- Provided personalized mathematics tutoring to two Canadian students, focusing on advanced problem-solving techniques and competition preparation.
- Guided students, so that they improved their position in the AMC Mathematical contest from the top-25% (in January 2020) in their age group to top-5% (in January 2023) according to grade distribution.

RISK INTERN – ERNST & YOUNG – 01/12/2019 – 30/09/2020 – KYIV, UKRAINE

Took part in 2 banking projects (with Retail and Corporate Bank), regarding banking operational models and risk systems:

- Established the Know-Your-Client process of the Bank and developed hypotheses for optimization.
- Performed calculations for the given hypotheses.
- Assisted in the assessment and optimization of other Banking processes (Credit, Compliance and AML processes and their RPA).
- Reduced Compliance Risks for the Bank by developing obligations based on the Regulations the Bank should follow.
- Delivered Insurance market research.

INTERN – DRAGON CAPITAL – 30/06/2019 – 30/08/2019 – KYIV, UKRAINE

- Assisted in the work of an investment project – the residential compound.
- Developed and programmed an algorithm for the elevators of an apartment complex.

PAPERS AND CONFERENCES

06/01/2025 – 10/01/2025

Asian School of Economic Theory

Participated in the Lectures and Seminars in economic theory: game theory, mechanism design and social choice theory.

The lecturers were Economic theorists In-Koo Cho (Emory University), Vijay Krishna (Penn State University), Antonio Penta (Universitat Pompeu Fabra and Barcelona School of Economics), Ariel Rubinstein (Tel Aviv University and New York University), Arunava Sen (Indian Statistical Institute) and Michael Woodford (Columbia University).

Link [https://www.econometricsociety.org/regional-activities/schedule/2025/01/06/2024-Asian-School-in-Economic-Theory-Abu-Dhabi-January-6-10-2025#:~:text=6-10%2C%2025-,2024%20Asian%20School%20in%20Economic%20Theory%2C%20Abu,%2C%20January%206-10%2C%2025&text=We%20are%20pleased%20to%20announce.\)%20in%20Abu%20Dhabi%20UAE.](https://www.econometricsociety.org/regional-activities/schedule/2025/01/06/2024-Asian-School-in-Economic-Theory-Abu-Dhabi-January-6-10-2025#:~:text=6-10%2C%2025-,2024%20Asian%20School%20in%20Economic%20Theory%2C%20Abu,%2C%20January%206-10%2C%2025&text=We%20are%20pleased%20to%20announce.)%20in%20Abu%20Dhabi%20UAE.)

01/05/2024 – 20/06/2024

Master's Final Project

- Topic: "Evolution of Social preferences. The comparison of media influenced and uninfluenced dynamics".

- Examined the dynamics of preference updates among a group of individuals who hold mutual credibility, focusing on how the diversity (polarization) of preferences and their manipulability by an exogenous actor, such as the media, develops over time.
- Explored the interplay between group size, group structure, the diversity of agents' preferences, and their susceptibility to manipulation by external influencers, particularly the media, along the equilibrium or oscillating path if equilibrium does not exist.
- Formulated and proved theorems that discuss sufficient equilibrium conditions for the model and the relation between group size and the manipulability of preferences by the media.
- Developed a computer program that calculates agents' preferences, the level of their diversity, and the degree of their manipulability by the media at each step along the equilibrium path.

Link <https://drive.google.com/drive/folders/1RHUTE2kOdvq4F1jWSMuvDv9l49e007?usp=sharing>

01/09/2021 – 11/07/2022

Bachelor's Thesis

Wrote a thesis on the topic "Risk Modeling Approaches for Student-like Models with Fractal Activity Time," building upon the previously written article.

01/09/2021 – 15/06/2022

Coauthored paper for local University's Journal

Coauthored the article "Risk Modeling Approaches for Student-like Models with Fractal Activity Time," which serves as the introduction to my bachelor's thesis.

Link <http://ekmair.ukma.edu.ua/handle/123456789/23009>

03/2021 – 04/2021

X Ukrainian Scientific Conference of Young Mathematicians

Reported at the conference with the topic "Risk modelling approaches", where I researched how to handle uncertainty when making decisions.

(You can find my Abstracts on page 87 if you follow the link below)

Link <http://matan.kpi.ua/public/files/2021/ysXconf/ysXabstracts.pdf>

08/2016 – 06/2017

Junior Academy of Sciences of Ukraine

- Conducted research on the topic "Aircraft Construction Property Study" in collaboration with Antonov State Enterprise and the Junior Academy of Sciences of Ukraine.
- Awarded Second Place for the research project.

COMMUNITY SERVICE

01/04/2022 – 15/07/2023

Volunteer with Ukrainian refugees

Volunteered as refugee coordinator at Berlin Central Railway Station (organized food, water, clothes, toiletries supply), helped with translation in German state bodies (Ausländerbehörde, Bürgerbüro, Jugendamt).

08/05/2022 – 31/07/2023

Founder of project "Help Ukraine - defend Europe" at EUV

- Assembled a team to organize events presenting Ukraine from three perspectives: Ukrainian music, Ukrainian cuisine, and Ukrainian history.
- Coordinated fundraising efforts, collecting donations for the Armed Forces of Ukraine.

Follow the link to find the report from one of our events, prepared by Reuters.

Link <https://www.youtube.com/watch?v=X-ZfMg6pi60>

28/02/2021 – 24/02/2022

Member of Project "Global Diaspora Interview Project" as a part of Canada-Ukraine Parliamentary Programme

- Organized interviews with representatives of the Ukrainian diaspora for other interviewers.
- Organized and conducted an interview with Dr. Lubomyr Romankiv (MIT), Chief Scout of "Plast" Scout Organisation, former leading IBM researcher and the inventor of magnetic tapes for hard disks.

28/02/2019 – 30/05/2019

Co-founder of project "Social Performance"

- The project aimed to emphasize that individuals with disabilities should be seen as people first, rather than defined by their disability, with the goal of helping them overcome loneliness. This message was conveyed through a performance.
- My responsibilities included negotiating with sponsors and concert halls, as well as performing a supporting role in the production.

LANGUAGE SKILLS

Mother tongue(s): **UKRAINIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
GERMAN	C1	C1	C1	C1	C1
RUSSIAN	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

LaTeX | Python | R / R Studio / R Markdown | Java Programming language | Statistical Modelling | Object-Oriented-Programming

COMMUNICATION AND INTERPERSONAL SKILLS

Interests, Hard and Soft skills

- Research interests in developing institutions, market- voting and social choice mechanisms, policies, studying cooperation and competition among individuals and institutions (game theory, mechanism design, social choice theory, behavioural economics).
- Focused on using Probability Theory and Statistical methods to explore various aspects of Risk and Uncertainty, particularly in relation to human behavior and decision-making.
- Strong skills in mathematics, particularly in making rigorous proofs
- Skilled in both analytical and synthetic thinking, with the ability to integrate complex information and generate comprehensive solutions.
- Proficient in statistical software such as R, with additional experience in Python and Java for data analysis.
- Able to maintain a balance between independent and collaborative work, with a preference for working in small teams when collaborating.
- Effective active listener, able to absorb and process information critically.