

Aleksandra Butneva

Curriculum Vitae

Via Giovanni Spadolini 12A
20141 Milan, Italy
☎ +49 175 592 59 89
✉ aleksandra.butneva@studbocconi.it
🌐 [aleksandra-butneva/](https://www.linkedin.com/in/aleksandra-butneva/)
📱 [aleksandra-butneva.netlify.app/](https://www.aleksandra-butneva.netlify.app/)

Summary

I study Cyber Risk Strategy and Governance at Bocconi and Politecnico di Milano to become an expert in the fields of Computer Forensics, Cyber Threat Intelligence, and Vulnerability Assessment. I am passionate about applying artificial intelligence tools to support the transition of our society towards safer and technologically-assisted future.

Academic Career

- since 08/2021 **Master of Science in Cyber Risk Strategy and Governance (Joint Degree)**, Bocconi University and Politecnico di Milano
- 08/2018 – 07/2021 **Bachelor of Arts in Political Science**, University of Mannheim, Germany, A (with honours)
Minor subject: Economics
Thesis: Cui Bono? Measuring Bias in Decision-Making on Merits of Constitutional Complaints
- 06 – 07/2019 **Seoul International Summer School 2019**, University of Seoul, South Korea, A (German 1.1)
- 09/2017 – 07/2018 **Entrance qualification for German universities**, Marburg, Germany, A (German 1.0)
- 06/2017 **A-Levels**, Moscow, Russia, A (German 1.0)
High school with an intensive German language program

Professional Experience

- 06/2021 – 08/2021 **Research Assistant**, Data and Web Science Group, School of Business Informatics and Mathematics, University of Mannheim, Germany
- Participated in the annotation task for machine learning and multi-dialogue English-to-Russian translation of .json data (Project supervisor: Chia-Chien Hung)
- Simulated and collected data for the SAP Q&A Bot
- 06/2020 – 07/2021 **Research Assistant**, Mannheim Centre for European Social Research (MZES), Mannheim, Germany
- Participated in the Corona Studies
- Collected data on political awareness and European opinion polling
- 01/2020 – 07/2021 **Research Assistant**, the Collaborative Research Centre “Political Economy of Reforms”, Mannheim, Germany
- Conducted quantitative text analysis in R
- Developed topic models for Prof. Thomas Gschwend and Dr. Benjamin Engst
- 10/2020 – 03/2021 **Data Science Consultant for Prof. Vera Tröger**
Consulted Prof. Tröger on issues related to web scraping with R and Python
- 10/2019 – 01/2021 **Teaching Assistant**, Chair of Quantitative Methods in the Social Sciences, Mannheim, Germany
- Taught classes in Research Design & Methods (online and in person)
- Designed lesson plans, prepared materials, and graded exams.
- since 10/2019 **Invited Young Scholar**, Financial University under the Government of the Russian Federation and Kazan Innovative University, (online offer)
- Co-authored articles in the Innovation Management and Telemedicine areas
- Co-developed an NLP-implementation based on SpaCy and Stanza in Python
The program enables better processing of academic Russian language in Python by solving definition and classification problems for telemedical services.

Internships

- 08/2018 **Intern at the Department for Urban, Regional, and Economic Development**, City Administration led by Dr. Stefan Blümling, Marburg, Germany
- Collected data on economic activities
- Designed flyers and presentations for city marketing

02/2018 **Intern at the Support and Consulting Center for refugees without prior German knowledge, Ministry for Education and Culture (Hessen), Marburg, Germany**
Taught German language classes for refugees of school-age at German primary schools, the lower secondary level, and vocational/professional schools

Scholarships and Grants

- since 05/2021 **Cyber Partnership Scholarship of the Cyber Partners Forum**
Awarded with a full tuition fee waiver worth up to 28 000€ for the two-year study period (Master's level)
- since 05/2017 **German Academic Exchange Service (DAAD) Study Scholarship for the best graduates of German Schools abroad**
Awarded with one of four exclusive scholarships for the pursuit of a Bachelor degree in Germany
- 08/2020-08/2021 **Scholarship of the European Forum Alpbach (EFA) – an Interdisciplinary Platform for Science, Politics, Business, and Culture**
Discussant & Speaker of the EFA's 75th online conference 2020
- 2020-2021 **One-year scholarship including free membership in The Society for Political Methodology**
- 06/2017 **Presidential Grant for outstanding academic performance and winner of the German language competition in Russia**

Publications

- Butneva, A., Gumerova, G., Shaimieva, E. (2020). Studying the formation of e-health on the basis of e-health Industry 4.0: applying the experience for Russian e-health. Is there an opportunity window for the innovation-guided process integration of e-health in Russia? [English] *International Research Journal*, 9-1 (99). doi: 10.23670/IRJ.2020.99.9.027
- Gumerova, G., Shaimieva, E., Butneva, A. (2020). A Business Model Of Russian E-Health Based On Process Integration Of Industry 4.0: The Development Of Indicators For Information Communication. [English], *The Academy Of Strategic Management Journal*, 19(6), online open access via abacademics.
- Gumerova, G., Shaimieva, E., Butneva, A. (2020). Enhancing information communication indicators for the development of Russian electronic business model in the e-health system based on process integration in the Industry 4.0. [Russian] *Investitions in Russia*, 9(308), 8-18. ISSN: 0868-5711
- Gumerova, G., Shaimieva, E., Butneva, A. (2020). Deriving indicators of information communication for the development of Russian e-health business model building on process integration in the Industry 4.0. [Russian] *Economic Vector*, 3(22), 30-38. ISSN: 2411-7269
- Gumerova, G., Shaimieva, E., Butneva, A., Rafikova, N. (2020). Waste collection and recycling as cities' social problem. development of social policy based on changes in social mechanisms and use of digital technologies.[Russian] *Public Administration E-Journal*, 81, 233-259. doi: 10.24411/2070-1381-2019-10087
- Gumerova, G., Shaimieva, E., Butneva, A. (2020, February 18-19). Is Russia ready for Industry 4.0? Perspectives of long-term integration of e-health in the Russian Federation considering German experience. [Paper presentation]. [Russian]. In: *Modern Approaches to the Transformation of Concepts of State Administration and Management in Socio-Economic Systems*. 9-th International Scientific-Practical Conference (Russia), Kursk (pp. 139-141). ISBN: 978-5-9907948-3-2

Patents

Butneva, A., Gumerova, G., Hüsigg, S., Schewe, G., Shaimieva, E. *Python-based NLP Classifier of medical services in the field of e-health to optimize the interaction among participants of the e-health model*. Patent certificate # 2020667510, issued by the Russian Federal Patenting Service on 24/12/2020.

Work in Progress

- Sältzer, M., and Butneva, A. (forthcoming 2022) Data Collection: API and Scraping. In: Ceron, A. *Encyclopedia of Digital Technology and Politics*. Edward Elgar Publishing: Cheltenham
- Shaimieva, E., Gumerova, G., Hüsigg, S., Schewe, G., Butneva, A. (forthcoming 2021). *Intellectual Property As a Driver Of International Scholarly Cooperation*. [Russian], under review of The Journal Of Higher Education In Russia

Extracurricular Activities

- since 2020 **Board Member, CorrelAid: An Independent and Inclusive Non-Partisan Network of Data Scientists**, Mannheim and Heidelberg, Germany
Conducted interactive visualisation of regional data with R and Python

- since 2019 **Volunteer**, *The German Red Cross*, Department of Migration and Integration, Mannheim, Germany
Organised German language tutorials and integration workshops for refugees
- since 2018 **Mentor**, the DAAD Mentoring Program “German schools abroad”, Baden-Württemberg area, Germany
- Mentored newly arrived scholarship holders
- Developed online-platforms for social networking and intercultural exchange

Conference Participation & Talks (selection)

- 08/10–12/10/2019 **LSEUPR Annual Conference 2021 “New Challenges, New Perspectives.”**, *London School of Economics and Political Science*, London, UK (ZOOM)
- Won the “Call for abstracts 2021” contest
- Awarded with a paper presentation on the topic: “When is the Supreme Constitutional Court stepping in? Investigating patterns of judicial response in Germany.”
- 07/2020 **Annual Meeting of the Society for Political Methodology (PolMeth XXXVII)**, Attendee
- 08/10–12/10/2019 **International Conference “Responsibility in Science, Economics, and Culture”**, *Embassy of Germany*, Moscow, Russia
Held a presentation on startup development guidelines for 2030
- 10/02/2019 **Workshop “Rhetorical and presentation techniques”**, Mannheim, Germany
Received a professional training in rhetoric and practiced presentation skills
- 2014–2017 **International German-language debating contest “Jugend debattiert international”**, Moscow, Russia
- Co-organised moderation & rhetoric trainings in Moscow and held workshops for future debaters
- Worked as a jury member
- 08/06–12/06/2016 **Bilateral Conference “10 Years of the Coordination Office”**, Moscow, Russia
Co-organised the conference and worked as a volunteer and interpreter for international guests
- 05/2016 **Joint seminar for the winners of national debating tournaments from Ukraine and Russia**, *Jugend debattiert international*, Berlin, Germany
Awarded with a participation scholarship as a winner of Russian final debating rounds

Computer skills

- Data Analysis Proficiency in R: Machine Learning, Data Visualisation
Advanced knowledge of Python and STATA
- Programming Web Scraping and Crawling, SQL, Monte-Carlo simulations
Management of Databases and Servers
L^AT_EX, Microsoft Office Suite, RMarkdown, Jupyter Notebook

Languages

- English bilingual proficiency
German bilingual proficiency
Russian native
Italian basic

References

Prof. Thomas Gschwend
Chair of Political Science,
Quantitative Methods in the
Social Sciences at the Univer-
sity of Mannheim (Germany)
68159 Mannheim
+49 621 181-2087
gschwend@uni-mannheim.de

Dr. Sean Carey
Researcher and lecturer at
the Chair of Political Science,
Quantitative Methods in the
Social Sciences at the Univer-
sity of Mannheim (Germany)
68159 Mannheim
+49 621 181-3725
sean.carey@uni-
mannheim.de

Prof. Thomas Bräuninger
Chair of Political Science,
Political Economy at the
University of Mannheim
(Germany)
68159 Mannheim
+49 621 181-3401
thomas.braeuninger@uni-
mannheim.de