

Aleksandra Butneva

Curriculum Vitae

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Summary

I study Cyber Risk Strategy and Governance at Bocconi University and Politecnico di Milano to become an expert in the fields of Computer Forensics, Cyber Threat Intelligence, and Deep Learning. 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 supervisors: Chia-Chien Hung, David Ganshorn)
- 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 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 financing the Master's studies

05/2017 – 09/2021 **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**

Computer skills

Data Analysis Proficiency in R, Python, and STATA, knowledge of JSON and UML
Risk Analysis and Strategy Development

Programming Machine Learning, NLP, Web Scraping and Crawling,
Monte-Carlo simulations, Data Mining
Database Management (SQL, Graph Databases)

Technologies L^AT_EX, Microsoft Office Suite, RMarkdown, Jupyter Notebook

Languages

English bilingual proficiency
German bilingual proficiency
Russian native
Italian basic

Publications

Shaimieva, E., Gumerova, G., Butneva, A., Hüsigg, S., Schewe, G. (2021). Intellectual Property as a Driver for International Scientific Cooperation: Development of Indicators for Russian Practice. [Russian], *Public Administration E-Journal*, 88, 233-259. doi: 10.24412/2070-1381-2021-88-36-51

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

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 2018 **Mentor**, the DAAD Mentoring Program “German schools abroad”, Germany
 - Mentored newly arrived scholarship holders
 - Developed online-platforms for social networking and intercultural exchange
- 2019 – 2020 **Volunteer**, *The German Red Cross*, Department of Migration and Integration, Mannheim, Germany
Organised German language tutorials and integration workshops for refugees

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.”
- 15/11/2019 **Case Study Participant**, *OTTO & Company (Strategy Consulting)*, Munich
Selected and funded to work on the case study: Pharma Greenfield
- 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
- 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

References

Prof. Thomas Gschwend
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sity of Mannheim (Germany)
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