

# CURRICULUM VITÆ

**Dimitri Bayuk (or Dmitrii Baiuk — in the transliteration used in some recent official documents)**  
**Ph.D. in History and Philosophy of Science (Mathematics and Physics)**  
**M.Sc. in the theoretical and mathematical physics**

Affiliation: Researcher and tutor (chercheur enseignant)  
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AAB-7582-2022

Scopus Author ID 6507997275

Personal information: Born in Khimki, Moscow region, in the USSR, on 23 August 1960.  
Married, two children

## Education:

**12/1988–08/1991:** USSR Academy of Science, Institute for History of Science and Technology (IIET AN SSSR). Doctoral program in the history of physics and mechanics

**09/1977–02/1983:** Lomonosov Moscow State University (MGU), Department of Physics, Specializations in Solid-State Physics and Physics of High Energy. Undergraduate and graduate programs

## Degrees & honors:

**Ph.D.** Galileo's early works: Pisan and Paduan periods (1588–1610). Thesis defended at S I Vavilov Institute for the History of Science and

Technology on 15 October 1992, supervised by Ashot Grigoriyan and Vladimir Kirsanov

- MA** The renormalization group invariant charge and its dependence of quark masses. Thesis defended at the chair of high energy physics of Physical department of Moscow University on 3 February 1983, supervised by Vladimir Fainberg
- PAUSE Fellowship (France)** October 2023 – present. Laboratory SPHere, University of Paris
- Fulbright Fellowship (USA)** 2023-2024. Houston University, TX, Department of History (rejected)
- Fulbright Fellowship (USA)** 2000-2001. Saint Louis University (St. Louis, MO), Department of Mathematics and Mathematical Computer Science. Project in Religious studies devoted to scientific and religious aspects of the Galileo case in the late Renaissance Italy and the case of Florenskii in the Soviet Russia of 1920–30s
- PAST Exchange Programme (France)** 1998. Université de Nantes, Centre François Viète d'épistémologie et d'histoire des sciences et des techniques. Project devoted to the interaction of arts (the theory of music) and science in the Russia of the early 19<sup>th</sup> century and its dependence of the musical theory evolution in the Italy of the Renaissance
- La bourse Diderot (FMSH, Nice-Paris, France)** 1995–1996, 2000, 2002, 2005. The Blue Beach Observatory, the Alberti International Society (SILBA with some projects devoted to Early modern science and art

### **Membership in International professional organisations**

- 2022-present** Association of exiled philosophers in France « Institut de philosophie indépendant »
- 2012-present** Académie Internationale d'Histoire des Sciences [International Academy for the History of Science]
- 2012-2018** Corresponding member
- 2018-present** Effective member
- 2016-present** Russian Society for History and Philosophy of Science  
Member  
(in 2016–2022 secretary of the Scientific Board)
- 2016-present** European Soc. History of Science (ESHS)  
Member

(in 2016–2020 and since September 2022 member of the Scientific Board)

**2000–2002** Michigan Academy of Science, Arts and Letters  
Member

**2000–2002** History of Science Society  
Member

### **Research interests:**

Early modern science and art, Scientific revolution of the seventeenth century, transition of scientific knowledge to non-European cultures, history of mathematics in early modern times, Leibniz's studies, Galileo's studies, the role of astronomy in Sino-Russian relations, digital revolution, ethical aspects of AI.

### **Current projects**

Astronomy as a political and practical factor in building an empire;  
Perception of Chinese astronomy in the Russian Empire / Soviet Union / Russian Federation;  
Anthropological observations of voyaging astronomer in the seventeenth and eighteenth century;  
Artificial intelligence and (ultra)conservative revolution.

### **Professional experience:**

**10/2023-present** University of Paris (Université Paris-Cité), researcher and tutor (chercheur enseignant)

**02/2023-04/2023** Observatory of Paris. SYRTE. Research engineer

**11/2019–01/2023** Financial University, Department of Mathematics, Associate professor

**2001–2022** Quarterly journal *Voprosy Istorii Estestvoznaniâ i Tehniki [Studies in History of Science and Technology]*. Deputy editor in chief

**09/2017-11/2019:** Financial University, Department of Data analysis and finance decision making, Associate professor (part-time)

**11/2016-10/2019** Financial University, Department of Economic Theory (part-time)

**2001–10/2019** Russian Academy of Sciences, S I Vavilov Institute for the History of Science and Technology (IIET RAN). Department of the History of Physics, Astronomy and Mechanics. Senior researcher (full-time)

**04/2006–05/2011** *Vokrug Sveta* Editorial House, Internet portal, deputy editor in chief (full-time)

**10/2000–06/2001** Saint Louis University in St. Louis, MO. Department of Mathematics and Mathematical Computer Science. Visiting professor (Fulbright fellow)

**05/1998–06/1998** The University of Nantes, Centre François Viète d'épistémologie et d'histoire des sciences et des techniques. Visiting professor (PAST programme)

<b>03/1997– 03/1998</b>	<i>Voyage</i> Geographic magazine (Russian analogue of <i>National Geographic</i> ), <i>Centre Plus</i> Editorial House, second executive editor (full-time)
<b>10/1995–05/1996</b>	Observatory of the Blue Beach (Nice, France). Visiting researcher (Diderot fellow)
<b>01/1994–12/1994</b>	The Communications Lab of the Russian Academy of Sciences (RAN). Velihov–Hamburg Internet project, Researcher (full-time)
<b>01/1994–12/1999</b>	Russian Academy of Sciences, SI Vavilov Institute for the History of Science and Technology (IIET RAN). Researcher (part-time)
<b>11/1994–04/1995</b>	<i>Kommersant</i> Editorial House, <i>Stolitsa</i> magazine, Desktop layout operator (full-time)
<b>08/1993–12/1993</b>	Deutsches Museum (Munich, Germany), Collection of the Musical Instruments. Visiting researcher;
<b>1991–1993</b>	Quarterly journal <i>Voprosy Istorii Estestvoznaniâ i Tehniki</i> [ <i>Studies in History of Science and Technology</i> ]. Book review editor, international relations editor, managing editor (since 1992)
<b>03/1983–12/1988</b>	USSR Academy of Sciences, MV Keldysh Institute for the Applied Mathematics (IPM AN SSSR). Junior researcher (full-time)

#### **University courses taught (in English and Russian):**

<i>Mathematical computer science (UG)</i>	Department of the international economic relations of the Financial University (academical years): - 2021–present (in English) - 2020–2021 (in English) - 2019–2020 (in English) - 2018–2019 (in English) Higher school of management - 2020–2021 (in Russian) - 2019–2020 (in Russian)
<i>Data science (UG)</i>	Higher school of management at the Financial University (academical years): - 2021–present (in English) Department of the state financial control of the Financial University: - 2018–2019 (in Russian)
<i>Legal and Ethical Problems of the Artificial Intelligence (MA)</i>	Department of applied mathematics of the Financial University (in Russian) - 2021 (fall) - 2020 (fall) - 2019 (fall)
<i>Mathematical support of financial decision making (MA)</i>	Department of the international economic relations of the Financial University (in English) - 2021 (spring)
<i>Mathematics (UG); Introduction into the theory of sets. Complex</i>	Department of the international economic relations of the Financial University - 2020–2021 (in Russian) - 2017–2018 (in English)

numbers. Basics of calculus, linear algebra and their applications in finance)	Higher school of management at the Financial University - 2020–2021 (in Russian) - 2019–2020 (in Russian) Department of the state financial control of the Financial University: - 2019–2020 (in Russian) Financial department of the Financial University - 2019–2020 (in Russian)
<i>Global Economic History (UG)</i>	Department of the international finance of the Financial University (in English) - 2017–2018 - 2016–2017
<i>Cosmology and Culture (MA)</i>	Higher School of Economics (in Russian) - 2015 (fall) - 2014 (fall) - 2013 (fall)
<i>History of Natural Sciences (MA)</i>	Higher School of Economics (in Russian) - 2011–2012

### Other professional activities:

<b>2023</b>	Evaluation board chairman, <i>Provsetitel'.Perevod</i> prize for the best Russian translation of a popular science book ( <a href="https://www.premiaprosvetitel.ru/news/view/?403">https://www.premiaprosvetitel.ru/news/view/?403</a> )
<b>2022</b>	Evaluation board chairman, <i>Provsetitel'.Perevod</i> prize for the best Russian translation of a popular science book ( <a href="https://www.premiaprosvetitel.ru/news/view/?394">https://www.premiaprosvetitel.ru/news/view/?394</a> )
<b>2022</b>	Best popular science project competition jury member, National Research University — Higher School of Economics ( <a href="https://www.hse.ru/science/scifund/worksrus/juri_nauch_pop">https://www.hse.ru/science/scifund/worksrus/juri_nauch_pop</a> )
<b>2021:</b>	Evaluation board chairman, <i>Provsetitel'.Perevod</i> prize for the best Russian translation of a popular science book ( <a href="https://trv-science.ru/2021/07/prosvetitel-perevod-2021-long-list/">https://trv-science.ru/2021/07/prosvetitel-perevod-2021-long-list/</a> )
<b>2021:</b>	Best popular science project competition jury member, National Research University — Higher School of Economics (the list is no longer available)
<b>2020:</b>	Evaluation board chairman, <i>Provsetitel'.Perevod</i> prize for the best Russian translation of a popular science book ( <a href="https://youtu.be/c9R_PBGuxJ8">https://youtu.be/c9R_PBGuxJ8</a> )
<b>2010–2020:</b>	Berlin editorial group of Leibniz edition project. ( <a href="https://katalog.ub.tu-braunschweig.de/vufind/Search2Record/1694119351">https://katalog.ub.tu-braunschweig.de/vufind/Search2Record/1694119351</a> )

## Computer competence:

Online courses creation and management with Moodle; data analysis in MS Excel and R; data visualization in MS Excel and R; principle of Machine learning with MS Azure ML; Web design with WordPress; text processing with LaTeX; Adobe Illustrator CS3; Adobe Acrobat 8 Pro; Adobe Photoshop CS3; Adobe InDesign CS3, and QuarkXPress.

## Languages:

Russian	Native
Ukrainian	Colloquial
English	Fluent. Long teaching experience
French	Fluent. Long working experience
German	Good. Working experience
Italian	Good
Chinese	HSK3 certificate of 2019
Latin	Sufficient to read and understand classical works in mathematics and physics

## Recent publications:

### Books

#### Monographies and textbooks

*Pravovye i étičeskie problemy iskusstvennogo intellekta. Učebnik dlâ magistratury [Legal and Ethical Problems of the Artificial Intelligence. Textbook for Master's Program]*, Moscow: Prometheus, (with Anna Popova), 2022.

*Praktičeskoe primenenie metodov klasterizacii, klassifikacii i approksimacii na osnove nejronnyh setej [Practical application of clustering, classification and approximation methods based on neural networks]*, Moscow: Prometheus, (with O. Bayuk, D. Berzin, V. Ivanyuk et la.), 2020.

*Theoretical and methodological approach to financial literacy through content and language integrated learning (CLIL)*, Moscow: Russcience, (with T. Ason, M. Belogash, T. Belousova et al.; edited by G. Dubinina, I. Klimova, S. Kondrahina), 2019.

*Lûdi mira: Russkoe naučnoe zarubež'e [People of the world. Russian scientific abroad]*, Moscow: Alpina Non-fiction, (with A. Alakhverdyan, A. Vaganov, G. Gorelik et al.; edited), 2019.

#### Translations

*Kniga Bytiâ: Obšââ istoriâ proishoždeniâ*. Moscow: Corpus, 2022. Original title: Guido Tonelli. *Genesi: Il grande racconto delle origini*. Milano: Feltrinelli, 2019. (In Italian)

*Žizn' 3.0. Byt' čelovekom v èpohu iskusstvennogo intellekta*. Moscow : Corpus, 2019. Original title: Max Tegmark. *Life 3.0: Being Human in the Age of Artificial Intelligence*. Penguin Publishing Ltd., 2018. (In English)

*Srok vremeni*. Moscow: Corpus, 2019. Original title: Carlo Rovelli. *L'ordine del tempo*. Milano: Adelphi, 2017. (In Italian)

### **Journal articles**

- "La visite de Pierre le Grand à Paris en 1717, ou la science au service du pouvoir," *Archive for History of Exact Sciences*, **72** (2022): 98-127 DOI: 10.1484/J.ARIHS.5.133707 (with Françoise Le Guet–Tully).
- "G. V. Lejbnic: ot «simvol'noj revolûcii» v matematike k koncepcii zamešaûšego znaniâ [G. W. Leibniz: from the "symbolic revolution" in mathematics to the concept of suppositive cognition]," *Epistemology & Philosophy of Science / Ėpistemologiâ i filosofîâ nauki*, **59** (2022), no. 2, pp. 201–217. DOI: 10.5840/eps202259233 (with Olga Fedorova).
- "Znak i problema vyraženîâ u Lejbnica [G. W. Leibniz: Sign and the Problem of Expression]," *Epistemology & Philosophy of Science / Ėpistemologiâ i filosofîâ nauki*, **57**(2020), no. 1, pp. 146-165. DOI 10.5840/eps202057112 (with Olga Fedorova).
- "Science and Russian Orthodox Scholarship," *Isis*, **107** (2016), no. 3, pp. 573–578. DOI: 10.1086/688415 (with Karl Hall).
- "Scientific Academies in Russia: Transcontinental Imperial Projects," *Viewpoints*, **110** (2016), pp. 5–6.
- "History of Science in Russia: Its Main Institute IIET in Moscow and in St. Petersburg," *Centaurus*, **56**(4): 2014, pp. 205–228. DOI: 10.1111/1600-0498.12074.
- "Leibniz v Rossii: Perevody i ih Avtory [Leibniz in Russia: Translations and Their Authors]," *Voprosy istorii estestvoznaniya i tekhniki [Studies in the History of Science and Technology]*, 2014, vol. 35, no. 2, 3–24 (with Olga Fedorova).

### **Selected articles in edited volumes**

- "Sputniki Ūpitera kak faktor vliâniâ v rossijsko-kitajskih otnošeniâh konca XVII – načala XVIII vv. [The Jupiter satellites as a factor of influence in Sino-Russian relations in the late seventeenth and early eighteenth centuries]," *Istoriko-astronomičeskie issledovaniâ [Studies in the history of astronomy]*, Vol. 41 (2022), pp. 29–63.
- "Rossijsko-kitajskaâ granica: ot protivostoâniâ k sotrudničestvu [The Russia-China border: from confrontation to cooperation]," in: A.V. Lubkov (ed.), *70 let KNR: istoriâ, sovremennost' i perspektivy razvitiâ. Sbornik naučnyh statej učastnikov Meždunarodnoj naučnoj konferencii [70 Years of Chinese Popular Republic: History, Modernity and Development Prospects. Collection of scientific articles of the participants of the International scientific conference]*, Moscow Pedagogic State University Press, Moscow, 2021, pp. 29–40.
- "Father Antoine Gaubil, S J (1689–1759), and His Election to the Saint Petersburg Academy of Sciences," in: Luis Saraiva and Catherine Jami (eds.). *Visual and Textual Representations in Exchanges between Europe and East Asia 16th–18th centuries*. New Jersey; London; Singapore: World Scientific, 2018, pp. 331–350.
- "Vstreča Petra I s Giïomom Delilem i učastie iezuitov v kartografirovanii Dal'nego Vostoka [Encounter of Peter the Great with Guillaume Delisle in Paris and the participation of French Jesuits in mapping of the Far East]," in: Dmitrii Gouzevich, Alexandre Kobak, Marina Petrova (eds.), *Itinéraires Européens de Pierre le Grand. A l'occasion du tricentenaire de la visite du tsar en France. Matériaux du IXe Congrès international pétrovienn. Paris; Reims, 20–22 avril 2017*, St. Petersburg: European House, 2018, pp. 292–300 (with Olga Fedorova).

### **Online publications**

- Destruktivnyj um, ili počemu v bor'be za sohranenie okružaûšej sredy my obrečeny na poraženie [Destructive mind, or why in the struggle for the preservation of the environment we are doomed to defeat], *Istoričeskaâ ěkspertiza*, 23 May 2024, <https://www.istorex.org/post/23-05-2024-dimitri-bayuk>

«Vy imeete pravo hranit' molčanie...»: 300 let Akademiâ nauk sohranâla sebâ pod davleniem vlasti ["You have the right to remain silent...": 300 years the Academy of Sciences kept itself under the pressure of power], *T-Invariant*, 8 February 2024, <https://www.t-invariant.org/2024/02/molchanie-yagnyat-300-let-akademiya-nauk-sohranyala-sebya-pod-davleniem-vlasti/>