# Dmitry Payson

Space Industry & Economics Researcher

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## Profile

Dmitry Payson is a space industry business and economics researcher specializing in institutional design and governance frameworks. With a D.Sc. in Economics and Ph.D. in Spacecraft Design, he combines theoretical expertise with extensive practical experience in space policy and innovation systems. Following a Senior Fellowship at TU Dresden (2025), he is currently seeking academic or research positions. His research appears in the forthcoming Oxford Handbook of the New Space Economy and leading journals in space policy and economics.

## Research Interests

Institutional design and governance in space activities

Public good theory and stakeholder cooperation frameworks

Development institutions and structural reforms of high-tech industries

Comparative industrial policy and space sector ecosystems

Space political economy and history

## Key Publications


Payson, D. Public goods and the evaluation of complex outcomes in space economy //Space Policy. 2026, 101762. https://doi.org/10.1016/j.spacepol.2026.101762.

Payson, D. Space Industry Ecosystem/In: Oxford Handbook on New Space Economy, ed.by A.D'Costa, Oxford University Press, 2026. URL: https://payson.center/550150704.pdf

Payson, D., Kosenkov I. Russian Space Industry and Space Activities/In: Oxford Handbook on New Space Economy, ed.by A.D'Costa, Oxford University Press, 2026. URL: https://payson.center/550155238.pdf

Paikowsky, D., Payson, D., & Falkov, Y. Orchestrating Power: The Cultural–Institutional Nexus and the Rise of Digital Innovation Ecosystems in Great Power Rivalry // Systems. 2025, 13(8), 643. https://doi.org/10.3390/systems13080643

Payson, D., Frolov, I. Multi-Level Structure of The International Space Market and Analysis of Labor Productivity in the Rocket and Space Industry //Cosmic Research. 2020. 58, 3, 218-226. URL: https://tinyurl.com/3xndefha

## Languages

English (Fluent), Russian (Native), Hebrew (Basic), German (A2, actively developing)

## Qualifications

Doctor of Science in Economics, Central Economics and Mathematics Institute, Russian Academy of Sciences, 2011

Ph.D. in Satellite Technology, Moscow Aviation Institute, 2003

International Space University Summer Session, Stockholm, 1995

Engineer, Spacecraft Design, Moscow Aviation Institute, 1994

## Research and Teaching Appointments

11.2025-present: Germany (Chancenkarte, seeking academic position).

08.2025-10.2025, Post-Fellowship resident, Technical University Dresden

03.2025–08.2025, Senior Fellow, Technical University Dresden

- Submitted a research paper on economic goods and total economic valuation categorial fusion in space economy
- Co-developed a survey experiment on public attitudes toward human spaceflight

03.2023–03.2025, Researcher, The Hebrew University of Jerusalem

- Participated in the Israel Science Foundation project “Great Power Rivalry, Transformability of Dual-use Technology and the Change of Practices and Processes of Empowerment in the Digital Technology Landscape.”

01.2019–04.2022, Researcher (part-time), Institute for Economic Forecasting, Moscow, Russia

- Co-authored the Space Economy keynote for the Academy of Sciences annual meeting
- Co-authored an overview of the ‘incapsulated industries’

01.2019–04.2022, Researcher (part-time), Space Research Institute, Moscow, Russia

- Led the Institute’s contribution to background research on outer space resources for the Ministry of Science.
- Developed and implemented a web-based educational project on the history and practice of space activities (https://tinyurl.com/3ykp9ayf).

09.2018–09.2022, Lecturer (part-time), Space Class High School Project, Moscow–Riga

- Delivered a high school course on the theory, history, and actualities of space exploration.

09.2019–12.2021, Associate Professor (part-time), Moscow State University

- Developed and delivered the Master-level course “Basics of Space Activities.”
- Participated in the university’s Space MBA project planning.

09.2011–05.2012, Lecturer (part-time), University of People’s Friendship, Moscow, Russia

09.2010–03.2011, Lecturer (part-time), Moscow Aviation Institute

## Space Industry and Policy Positions

04.2022–11.2025, Private Consultant, Educational and Infrastructure Development

- Conducted feasibility analysis for Israeli innovation hub development
- Research and curatorial work for Museum of Transportation project

01.2020–04.2022, Managing Director, Sber R&D Department, Moscow, Russia

- Developed methodological framework for foresight and strategic vision research
- Led analytical team on technology futures and innovation scenarios

02.2019–01.2020, Deputy Director, Center for Development of Space Activities JSC, Moscow, Russia

- Proposed amendments to national regulations on licensing space activities, improving conditions for innovative enterprises and start-ups

06.2017–07.2018, Director, Roscosmos Research and Analysis Center, Moscow, Russia

- Led analytical research on space innovation financing and institutional venture models
- Conducted policy analysis and program design for national satellite applications
- Coordinated research teams on space sector institutional development

08.2014–06.2017, Director, United Rocket and Space Corp. Information and Research Center, Moscow, Russia

- Led supporting research for space industry institutional change
- Delivered lectures and courses as part of corporate professional development programs

12.2011–08.2014, Director of Science, Space Technology & Telecom Cluster, Skolkovo Foundation, Moscow, Russia

- Developed analytical frameworks for space innovation ecosystem assessment
- Designed and implemented expert evaluation methodology for technology ventures
- Conducted comparative research on startup incubation models across 100+ projects

01.2005–12.2011, Deputy Department Head, Central Research Institute of Machine Building (TsNIIMash), Korolyov, Russia

- Developed institutional boundary analysis frameworks for space strategy formulation
- Co-coordinated international research collaboration on space technologies (Roscosmos/EU/ESA Working Groups, FP7/Horizon projects)
- Led analytical research supporting strategic planning processes

## Professional Service

Associate Editor, New Space

Peer reviewer for New Space and Acta Astronautica

National Contact Point for Space, EC-Russia cooperative programs in 2009-2011

Full Member, International Academy of Astronautics

## Research Projects and Grants

2025: Theoretical comprehension of emerging elements of space exploration economy (Dresden Senior Fellowship)

2023-2025: Great Power Rivalry and Dual-use Technology Transformability (Israel Scientific Fund, research participant)

2014-2016: Mishin Diaries - space history preservation project
(project leader, https://shorturl.at/qy1HA)

2012-2015: NEOShield - Near-Earth Object Impact Threat Mitigation
(EC FP7, Russian element coordinator)

2010: Space 2.0 and Russian Cosmonautics Institutional Development
(Russian Basic Research Foundation, grant 10-06-11512, PI)

2009-2010: Methodology of Space Products System Institutional Development
(Russian Basic Research Foundation, grant 09-08-13688, PI)

## Additional Publications


Payson, D. New Space and Newest Space // Outer Space Future for Humankind: Issues of Law and Policy. v.26 in Essential Ail and Space Law series /The Hague: Eleven, 2021, 31-50.

Payson, D., Alifanov, O., Moiseev, I., Vick, C., Woods, D. The Mishin Diaries, A New Significant Primary Source of Space History Information // Acta Astronautica. 2016. 123, 192-199. URL: https://www.sciencedirect.com/science/article/abs/pii/S0094576515302551

Payson, D., Davidian, K. Transition of the Russian rocket and space industry // New Space. 2015. 3, 1, 59-67. URL: https://www.liebertpub.com/doi/10.1089/space.2014.0028

Harris, A.W., Barucci, M.A., Payson, D. et al. The European Union funded NEOShield project: A global approach to near-Earth object impact threat mitigation //Acta Astronautica. 2012, 90(1), 80–84. doi:https://doi.org/10.1016/j.actaastro.2012.08.026.

Payson, D., Makarov, Y. Russian Space Programs and Industry: Defining the New Institutions for New Conditions //Space Policy. 2009. 25, 2, 90–98. URL: https://www.sciencedirect.com/science/article/abs/pii/S026596460900023X

Payson, D., Frolov, I., Bendikov, M. Institutional specifics of the space and nuclear industries' development/ In: Mesoeconomics of Russia: a runaway strategy : monograph / edited by G.B. Kleiner,- Moscow: SCIENCE LIBRARY Publishing House, 2022, 148-190. URL: https://systemeconomics.ru/wp-content/uploads/monografiya_mezoekonomika-rossii_strategiya-razbega.pdf (The Google translation: https://tinyurl.com/2esc3dka )

Payson, D. Space Activity: Evolution, Organization, Institutions. Moscow: Book House Librocom, 2010, 2nd ed. 2013. (in Russian)