Dmitry Payson

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Profile

Economist specializing in the institutional and innovation economics of science-intensive sectors, with particular emphasis on the space economy and the valuation of public goods. My research connects institutional and innovation economics with applied microeconomic analysis of value creation, public goods, and industrial organization in science-intensive sectors.

Research Themes

- Economics of innovation and public goods
- Institutional and value-chain modeling in high-technology sectors
- Comparative analysis of governance and policy design

Academic and Research Positions

Senior Research Fellow, Technical University of Dresden (2025)

Designed and led an experimental study on public preferences for human versus robotic space missions.
Developed a framework applying economic goods and TEV approach to evaluating exploration programs.

Researcher, Hebrew University of Jerusalem (2023–2025)

Israel Science Foundation project: Great Power Rivalry and Dual-Use Technologies.
Conducted comparative analysis of innovation policies and governance under geopolitical competition.

Researcher, Institute for Economic Forecasting and Space Research Institute, Russian Academy of Sciences (2019–2022)

Co-authored Space Economy keynote for the Russian Academy of Sciences annual meeting.
Modeled global space-industry value chains and comparative productivity dynamics using added-value metrics.

Associate Professor, Moscow State University (2019–2021)

Designed and taught the master-level course, Basics of Space Activities.
Contributed to curriculum development for the Space MBA program.

Policy and Innovation Leadership

Managing Director, Sber Research and Innovation Department, Moscow, Russia (2020-2022)

Director, Roscosmos Research and Analysis Center (2017–2018)

Led feasibility studies for the Roscosmos Venture Fund and Sphera national satellite-application program.
Applied multi-tier value-chain methodology, later formalized in Cosmic Research (2020).

Director of Science, Skolkovo Foundation Space Cluster (2011–2014)

Developed evaluation methods for over 100 early-stage innovation projects in the space sector.
Created frameworks for assessing innovation ecosystems and public-private support mechanisms.

Deputy Department Head, Central Research Institute of Machine Building (2005–2011)

Coordinated EU–Roscosmos collaboration on FP7 projects.
Contributed to research on institutional design, transition economics, and R&D governance.

Education

Doctor of Science (Economics), Central Economics and Mathematics Institute, Russian Academy of Sciences (2011)
Ph.D. (Satellite Technology), Moscow Aviation Institute (2003)
Engineer (Spacecraft Design), Moscow Aviation Institute (1994)

Grants and Fellowships

Senior Research Fellowship, Technical University of Dresden (2025)
Researcher, Israel Science Foundation project, Hebrew University of Jerusalem (2023–2025)
Principal Investigator, Russian Foundation for Basic Research Grant (2009–2011)

Selected Articles

Publications span economics of innovation, institutional design, and technology policy, linking theoretical modeling with empirical applications in science-intensive sectors.

Payson, D. Space Industry Ecosystem. In: Oxford Handbook on New Space Economy, ed. A. D'Costa (forthcoming, 2025).
Payson, D., Kosenkov, I. Russian Space Industry and Space Activities. In: Oxford Handbook on New Space Economy, ed. A. D'Costa (forthcoming, 2025).
Payson, D. Public Goods and the Evaluation of Complex Outcomes in Space Exploration. SSRN: https://ssrn.com/abstract=5370548
Paikowsky, D., Payson, D., Falkov, Y. Orchestrating Power: The Cultural–Institutional Nexus and the Rise of Digital Innovation Ecosystems in Great Power Rivalry. Systems, 13(8), 643 (2025).
Payson, D. New Space and Newest Space. Outer Space Future for Humankind: Issues of Law and Policy. Vol. 26 in Essential Air and Space Law Series. The Hague: Eleven, 2021, 31–50.
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, 58(3), 218–226 (2020).
Payson, D., Davidian, K. Transition of the Russian Rocket and Space Industry. New Space, 3(1), 59–67 (2015).
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, 90(1), 80–84 (2012).
Payson, D., Makarov, Y. Russian Space Programs and Industry: Defining the New Institutions for New Conditions. Space Policy, 25(2), 90–98 (2009).
Payson, D., Frolov, I., Bendikov, M. Institutional Specifics of the Space and Nuclear Industries' Development. In: Mesoeconomics of Russia: A Runaway Strategy, ed. G. B. Kleiner. Moscow: Science Library, 2022, 148–190.

Professional Service

Associate Editor, New Space
Reviewer for Acta Astronautica and New Space
Full Member, International Academy of Astronautics

Skills and Languages

Software and Analytical Skills: MS Office Suite, MS Project, Figma, and VBA-based data processing.
Languages: English (fluent), Russian (native), Hebrew (beginner), German (beginner)