Dr. Michaela Musilova

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website: www.michaelamusilova.com LinkedIn: https://www.linkedin.com/in/dr-michaela-musilova/

Education:	
	Europoon Space Aganey (ESA) scholarship to attand the ISU Space
International Space University – ISU (2015):	European Space Agency (ESA) scholarship to attend the ISU Space Studies Program in partnership with the NASA Glenn Research
	Centre, USA
University of Bristol – UoB, UK (2011-2015):	PhD researcher specialising in extremophiles with applications to
	astrobiology, environmental science and glaciology
	Natural Environmental Research Council (NERC) studentship and
University College London – UCL, UK (2007-2011):	affiliated Doctoral Research Training Grant MSci Earth Sciences with First Class Honours
	Distinction: Dean's List Commendation
California Institute of Technology (Caltech) (2009-2010):	UCL competitively selected exchange student on a scholarship
	Annual Grade Point Average (GPA): 4.0/4.0
French Lycée Chateaubriand in Rome, Italy (2004-2007):	French Baccalaureate with the distinction summa cum laude
Research & space industry work experience:	
President of the non-profit XtremeFrontiers	
(2021-present):	Leader of all the XtremeFrontiers research and educational
	activities, including the Astro Seven Summits project. It is a series
	of scientific and educational expeditions to the tallest mountain on
	each continent (the Seven Summits), with a focus on astrobiology
	and climate change. The project's goal is to perform unique
	scientific research for institutions such as NASA and a variety of
	scientific rescaren for institutions such as wash and a variety of
	educational and outreach activities during each expedition. It's very
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Space scAvengers (2024-present):	educational and outreach activities during each expedition. It's very important for the project team to work with local communities in ethical ways and to make sure that they leave the smallest impact
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ISU, France (2021-present): STEM Punks, Australia (2020-present): NEEDRONIX – satellite tech. company (2017-present):	 educational and outreach activities during each expedition. It's very important for the project team to work with local communities in ethical ways and to make sure that they leave the smallest impact possible on the environment. Ambassador for outreach and educational activities related to space and STEM subjects Global Faculty Advisory Board Member for outreach, education and space Head of Research for NEEDRONIX and the Project Manager for an ESA funded project, and an advisor for a second ESA funded project
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ISU, France (2021-present): STEM Punks, Australia (2020-present): NEEDRONIX – satellite tech. company (2017-present):	 educational and outreach activities during each expedition. It's very important for the project team to work with local communities in ethical ways and to make sure that they leave the smallest impact possible on the environment. Ambassador for outreach and educational activities related to space and STEM subjects Global Faculty Advisory Board Member for outreach, education and space Head of Research for NEEDRONIX and the Project Manager for an ESA funded project, and an advisor for a second ESA funded project Senior Research Advisor focusing on planetary science,
ISU, France (2021-present): STEM Punks, Australia (2020-present): NEEDRONIX – satellite tech. company (2017-present): Mission Control Space Services Inc. (2015-present): Faculty of Electrical Engineering & Information	 educational and outreach activities during each expedition. It's very important for the project team to work with local communities in ethical ways and to make sure that they leave the smallest impact possible on the environment. Ambassador for outreach and educational activities related to space and STEM subjects Global Faculty Advisory Board Member for outreach, education and space Head of Research for NEEDRONIX and the Project Manager for an ESA funded project, and an advisor for a second ESA funded project Senior Research Advisor focusing on planetary science, astrobiology, developing international research collaborations, and
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Simulation) Mars and Moon simulation facility in Hawai'i - led over 30 analog space missions as their **Commander** and organized over

40 such missions, in collaboration with NASA, ESA, DARPA, SIFT,

	40 SUCH HISSIONS, IN CONDUCTION WITH MASA, ESA, DARPA, SIFT,
	Honeybee Robotics, Ketone Technologies and numerous other
	space organizations and groups of volunteers worldwide.
ISU, France (2020-2021):	Adjunct Faculty
ISU, France (2016-2020):	Visiting lecturer
Slovak Organisation for Space Activities – SOSA,	
Slovakia (2019-2021):	Vice-Chair of the organisation
University of Hawai'i, USA (2018-2020)	Visiting Researcher
Spacemanic – satellite tech. company (2017-2019):	CEO and Co-Founder
SOSA, Slovakia (2016-2019):	Chair of the organisation
NASA funded research at HI-SEAS, USA (2018):	Science Officer & Martian analogue astronaut of Mission VI
Canada-France-Hawaii Telescope, USA (2018):	Researcher studying the dust distribution within the Milky Way
	through a NASA-funded international research project.
Mars Desert Research Station – MDRS, USA (2017):	Commander of a simulated mission to Mars, working with the
	Israeli Space Agency (ISA), Weizmann Institute of Science (Israel),
	Institute for Food Research (Slovakia), and multiple Slovak and
	international companies.
Institute for Food Research, Slovakia (2016):	Expert research fellow, specialising in food for extreme
	environments and space.
Mars Desert Research Station – MDRS, USA (2014):	Martian analogue astronaut working with ESA, Open University,
	UoB, UK Centre for Astrobiology (University of Edinburgh) and the
	Space Research Centre (University of Leicester).
Royal Society International Exchange in Japan (2013):	Experimental studies in microbiology and glaciology at the Chiba
	University , Tokyo
University College London, UK (2011):	Seismology and earthquake hazard research for UCL, the University
	of Cambridge, UoB and GEO Grid Research Group, Japan.
Jet Propulsion Laboratory, NASA (2010):	NASA research fellowship on extremophiles and astrobiology
Caltech, USA (2009-2010):	Projects in molecular biology and biochemistry conducted in the
	Professor Victoria Orphan and Professor Jared Leadbetter labs.
UK Space Agency/NASA MoonLite project (2009):	UK Penetrator Consortium research assistant at UCL, funded by a
	Nuffield Foundation grant.
University of London Observatory – ULO (2008-2011):	Extracurricular research project searching for extra-solar planets

Grants and awards:

- Grant from the Ministry of Education, Science, Research and Sport of the Slovak Republic for Dr. Musilova's research at the LunAres space research station in Poland; scientific and educational work in Antarctica; and for two Astro Seven Summits scientific and educational expeditions to the tallest mountains in South America (Aconcagua) and in North America (Denali) (2023 & 2024)
- Grant from ESET for outreach and educational work in Slovakia (2024)
- Dr. Musilova was part of the largest expedition of women and non-binary leaders in STEM to Antarctica (2023), for which she was selected as one of 100 professionals from all over the world in 2020 through a global leadership initiative.
- Top 100 Professionals in Aerospace & Aviation to follow on LinkedIn (2022)
- Dr. Musilova was part of the core team that achieved a **Guinness World Record** for teaching the largest space exploration class (2022).
- Hero of Progress Award by ESET and featured on Forbes (2022)
- Top 100 Women in Aerospace & Aviation to follow on LinkedIn (2022)

- Dr. Musilova was elected as an Emerging Leader Representative for the Duke of Edinburgh's (DoE) International Award, for Europe, Mediterranean and Arab States. Through this role, she helped govern an organization that helps over a million young people worldwide (2017-2022).
- Ambassador's Award in recognition of Dr. Musilova's outstanding contribution to the development of the Slovak-American relations, Embassy of the Slovak Republic of the USA, Washington DC (2021)
- Top 100 Professionals in Aerospace & Aviation to follow on LinkedIn (2021)
- Leader of Tomorrow, St. Gallen Symposium, Switzerland (2018)
- Best publication prize from the Chancellor of the Slovak University of Technology (2017)
- Emerging Space Leaders Grant from the International Astronautical Federation (2016)
- Women in Aerospace Europe Student & Young Professional Award (2016)
- Forbes Slovakia (2015) most promising 30 under 30
- Grant from the Foundation Tatra Bank to attend the Space Studies Program at ISU (2015)
- ESA scholarship to attend the Space Studies Program at ISU (2015)
- Best presentation prize at the Astrobiology Society of Britain Conference, UK (2015)
- LEAF scholarship for academic excellence (2014)
- Royal Geographical Society (with IBG) Postgraduate Research Award for MDRS analogue astronaut research (2014)
- Grant from the Slovak Organisation for Space Activities (SOSA) for MDRS research (2014)
- Grant from the Ministry of Education, Science, Research and Sport of the Slovak Republic for MDRS research (2014)
- Grant from the University of Bristol's Alumni Foundation for MDRS research (2014)
- Travel awards to attend the International Glaciological Society British Branch Meeting in Aberdeen (2012); 'Snow Impurity and Glacial Microbe effects on the abrupt warming in the Arctic' Workshop in Tazawako, Japan (2013); UK Astrobiology Conference in Edinburgh (2013); 'Life in the Cold' Workshop in Leeds (2013); and the European Astrobiology Network Association with AbGradE conferences (2014)
- Royal Society International Exchange award to conduct research at the Chiba University, Tokyo, Japan (2012)
- NERC studentship and affiliated Doctoral Research Training Grant for PhD research at UoB (2011)
- UCL Dean's List Commendation for outstanding academic achievements (2011)
- UCL Graduate & Undergraduate Planetary Science Prize (2009 & 2011)
- UCL Old Students' Association Trust Scholarship for academic excellence (2008 & 2010)
- NASA summer research fellowship for research at the Jet Propulsion Laboratory, NASA (2010)
- Study Abroad Scholarship to study at the California Institute of Technology (2009-2010)
- Grant from the Nuffield Foundation to perform UK Penetrator Consortium research for the UK Space Agency/NASA MoonLite project (2009)
- UCL Alumni Scholarship for academic excellence (2009)
- Foundation SPP Hlavička ('Smart Head') Scholarship for academic excellence (2008-2009)
- UCL Hollingworth Prize for academic excellence (2008)

Selected invited presentations:

- Keynote speaker at the Analog Astronaut Conference, Biosphere 2, Arizona, USA (2024)
- Keynote speaker for an International Women's Day event at Volkswagen Slovakia, Bratislava, Slovakia (2024)
- Keynote speaker at the Export Forum in Košice, Slovakia (2023)
- Keynote speaker at the European Space Agency Day in Košice, Slovakia (2023)
- Keynote speaker at the European Researchers' Night, Bratislava, Slovakia (2022)
- TEDxGateway speaker, India (virtually) (2022)
- STEM Punks 2021 Space Program lecturer, UAE and United Kingdom (2022)
- Keynote speaker at the Slovak National Library, Martin, Slovakia (2022)
- Several keynotes and presentations at the **Dubai 2020 World EXPO**, Dubai, UAE (2021)

- Global Shapers Paris Hub's ShapeHer Talk, Paris, France (2021)
- TEDxKošice speaker, Košice (virtually), Slovakia (2021)
- Keynote lecture for IBM, Bratislava, Slovakia (2021)
- Keynote lecture for the Project Management Institute in Budapest, Hungary (2020)
- Forbes Technologies Innovations in Business presentation, Bratislava, Slovakia (2019)
- HN Inspire presentation, Bratislava, Slovakia (2019)
- IXPO the biggest technological festival in Slovakia keynote speaker, Bratislava, Slovakia (2019)
- Discussion at the European Parliament on the topic of Mars and astrobiology, together with the presentation of specific proposals on what the European Parliament & other EU institutions could do to contribute to these topics; Strasbourg, France (2018)
- Leader of Tomorrow, St. Gallen Symposium, Switzerland (2018)
- European Mars Conference keynote presentation, Innsbruck, Austria (2017)
- March for Science speech, Bratislava, Slovakia (2017)
- University presentation at the Slovak University of Technology, Kosice, Slovakia (2017)
- University presentation at the University of the Third Age at the Masaryk University, Czech Republic (2017)
- Scientific fair "Vedecký veľtrh" presentation, Bratislava, Slovakia (2017)
- 'Superškola' presentations and competition for school children, Bratislava, Slovakia (2017)
- University presentation at the Slovak University of Technology, Bratislava, Slovakia (2017)
- Partizánske observatory presentation, Partizánske, Slovakia (2017)
- Gymnasium Partizánske presentation, Partizánske, Slovakia (2017)
- 'Science Talk', Nitra, Slovakia (2017)
- 'Talks' HB Reavis presentations in Poland, Hungary, Czech Republic and Slovakia (2017)
- Observatory SOLAR presentation, Senec, Slovakia (2017)
- Cambridge Challenge award (inspirational speech), Bratislava, Slovakia (2017)
- EDUMED conference presentation, Košice, Slovakia (2017)
- TEDxBratislava speaker, Bratislava, Slovakia (2016)
- Presentation about Slovakia's research and technology to a European Commission delegation, Bratislava, Slovakia (2016)
- Presentation about Slovakia's research and technology to the Director General of UNESCO, Bratislava, Slovakia (2016)
- Presentation about Slovakia's space sector to the European Union Press (media) trip delegation, Bratislava, Slovakia (2016)
- Presentation about Slovakia's space sector to the Slovak President, Bratislava, Slovakia (2016)
- Presentation about Slovakia's research and technology to the European Commission at the "Science meets Regions" event, Brussels, Belgium (2016)
- Presentation about Slovakia's research and technology at the Joint Research Centre, European Commission, Italy (2016)
- Scientific discussion 'Science na N-tú', Bratislava, Slovakia (2016)
- Seminar at the German Aerospace Center (DLR), Cologne, Germany (2016)
- Presentation about Slovakia's research and technology to the Director General of the European Space Agency, Bratislava, Slovakia (2016)
- Panel presenter at the REFLEX European EURAXESS network workshop, Bratislava, Slovakia (2016)
- GLOBSEC Young Leaders' Forum (inspirational speech and discussion), Bratislava, Slovakia (2016)
- Duke of Edinburgh's Award Slovakia ceremony (motivational speech), Bratislava, Slovakia (2016)
- Scientific fair "Vedecký veľtrh" presentation, Bratislava, Slovakia (2016)

- Kozmonautika conference presentation, ValMez, Czech Republic (2016)
- Robotics Days presentation, Trenčín, Slovakia (2016)
- Profesia Days (inspirational speech and presentation), Bratislava, Slovakia (2016)
- Presentation for the Week of Science and Technology, Vsetin, Czech Republic (2016)
- 'The current world of science and society' presentation, Zlin, Czech Republic (2016)
- 'Science Talk', The Week of Science and Technology, Bratislava, Slovakia (2016)
- University presentation at the Slovak University of Technology, Bratislava, Slovakia (2016)
- Scientific and outreach discussion at the music festival Pohoda, Trenčín, Slovakia (2016)
- UNESCO presentation, Bratislava, Slovakia (2016)
- Preveda (scientific and outreach) presentation, Bratislava, Slovakia (2016)
- Kozmos News Party presentation, Pardubice, Czech Republic (2016)
- Debate and presentation at the American Centre, Prague, Czech Republic (2016)
- EduForm presentation, Trenčín, Slovakia (2016)
- ProEduco presentation, Košice, Slovakia (2016)
- Awards ceremony presenter for the winners of the TVT 2015 competition, Bratislava, Slovakia (2015)
- 'Science Talk' in the Centre for Science, The Week of Science and Technology, Bratislava, Slovakia (2015)
- Scientific discussion 'Science na N-tú', Bratislava, Slovakia (2015)
- Institute of Physics evening lecture, Institute of Physics Headquarters, London, UK (2015)
- Green Youth Day presentation, Bristol Festival of Ideas, Bristol, UK (2015)
- Institute of Physics evening lecture, Atomic Weapons Establishment, Aldermaston, UK (2015)
- Bristol Improv Theatre workshop and presentation, Rising Ape Collective, Bristol, UK (2015)
- 'Talk and Meet the Scientist' presentation at the Festival of Nature, Bristol, UK (2014)
- Keynote speaker at the European Researchers Night in Bratislava, Slovakia (2014)
- Summer special speaker for the Science café, Bratislava, Slovakia (2014)
- LEAF Summer Leadership Camp inspirational speaker, Bratislava, Slovakia (2014)
- Summer special speaker for the observatory SOLAR, Senec, Slovakia (2014)
- Institute of Physics evening lecture, Atomic Weapons Establishment, Aldermaston, UK (2013)
- Earth Sciences seminar at Chiba University, Japan (2013)

Outreach: *Writer:*

- Biography "Woman from Mars" (Žena z Marsu) published in 2020
 - articles for Space.com (2020-2022): https://www.space.com/author/michaela-musilova
 - short story author, as part of the collection of stories: Bratislava Legends come to life <u>https://www.martinus.sk/?ultem=1752805</u>
 - cover story of the Space Journal ROOM <u>https://room.eu.com/article/life-in-the-extremes-confessions-of-an-astrobiologist</u>
 - cover story of NERC Planet Earth magazine (UK): <u>http://planetearth.nerc.ac.uk/features/story.aspx?id=1669&cookieConsent=A</u>
 - Musilova et al., 2015 Frontiers in Microbiology paper featured on: phys.org: <u>http://phys.org/news/2015-04-microbial-diversity-ice-sheet-season.html</u> & Microbe magazine: http://www.asmscience.org/content/journal/microbe/10.1128/microbe.10.270.1
 - Series of articles for:
 ROOM (International), Science Uncovered (UK), Denník N (SK), Quark (SK), Kozmos (SK), Nový
 Čas (SK), www.aktuality.sk, www.science.sk, www.vedatechnika.sk,

www.vedanadosah.cvtisr.sk, www.vedeckykaleidoskop.cvtisr.sk, www.sosa.sk, www.eductech.sk, www.kozmonautika.sk

- **Competition organiser:** Organised the Mission to Mars competition for high school and university students in Slovakia, aimed at motivating students to design an experiment, which would be performed during simulated space missions (2016-present) <u>https://www.seas.sk/misia-mars</u>
- Television interviews: BBC (UK), CNN (USA), Science Channel (USA), Space.com (USA), National Geographic (USA), CNET (USA), Comedy Central (USA), ProSieben (DE), ARTE (FR & DE), VPRO (NL), Česká Televize (CZ), TV JOJ (SK), TA3 (SK), Markíza (SK), RTVS (SK), Tablet.tv (SK), Teraz.sk (SK)
- Radio interviews: BBC (UK), Cosmic Shed (UK), Space Clinic (USA), WATH 'The Party Line' (USA), Community for Bristol Radio (UK), Fun Radio (SK), Radio Express (SK), Radio FM (SK), Radio Slovakia International (SK), Radio Slovakia (SK), Radio Devin (SK), Radio Aktual (SK), Sky Radio (SK) and Radio Regina (SK)
- Journal interviews: Space.com (USA), Smithsonian (USA), CNET (USA), The Atlantic (USA), Pacific Business News (USA), Marie Claire (USA), Big Island Now (USA), West Hawaii Today (USA), Hawaii Tribune Herald (USA), khon2 (USA), Hawaii News Now (USA), Spacewatch.global (CH), Forbes (CZ), Pravo (CZ)
 - Slovak national newspapers and magazines:
 Hospodárske noviny (Economic Times), Forbes, SME, Pravda, Profit, .Týždeň, Denník N, Interview, Svet a my, Plus 1 deň, Miau, Nota Bene, Československý ústav zahraniční, Plus 7 dní, Nový Čas, Báječná žena, Slovenka, Slovenské korene, Učiteľské Noviny, topky.sk, aktuality.sk, startitup.sk, BREAK, diva.sk, EMMA, Jednota, Martinus Cena Fantázie, Slovak Spectator, Život, Košické Noviny, Lenna, mindshareworld.com, OKO, To som Ja, Jednota

Peer review:

- Editorial board: Slovak National Committee on Space Research (COSPAR) report
- **Editorial board:** Frontiers in Space Technologies topic: "How to survive in space? biotechnological challenges to provide opportunity for long-term space exploration"
- Editorial board: ROOM Space Journal
- Reviewer for: NASA Planetary Protection Research (PPR) Program, Astrobiology, National Science Foundation,
 ICMAE, and many other international grant programs and research journals

Teaching experience:

- Co-Chair of the Science Department during ISU's Space Studies Program, in collaboration with the Brazilian Space Agency (AEB), National Institute for Space Research (INPE) and Aeronautics Institute of Technology (ITA), São José dos Campos, Brazil (2023)
- Visiting professor, and bachelor's and master's thesis supervisor at the Faculty of Electrical Engineering & Information Technology, Slovak University of Technology, Slovakia (2017 present)
- Global Faculty Member, ISU, Strasbourg, France (2021 present)
- Lecturer for ISU's Interactive Space Program (2020- 2022)
- **Co-Chair** of the Science Department during **ISU**'s **Space Studies Program**, Strasbourg, France & Granada, Spain (2021)
- Adjunct Faculty, ISU, Strasbourg, France (2020 2021)
- Lecturer for ISU's Master in Space Studies, Strasbourg, France (2016-2021)
- Co-Chair of the Engineering Department during ISU's Space Studies Program, Strasbourg, France (2019)
- Lecturer at ISU's Space Studies Program at ESA's European Space Research and Technology Centre (ESA-ESTEC), Delft University of Technology (TU Delft) and Leiden University, run by the Netherlands Space Office (NSO) in the Netherlands (2018); Cork Institute of Technology, Ireland (2017); Technion – Israel Institute of Technology, Israel and the Israel Space Agency (ISA) (2016)
- Astrobiology lecturer and master's project supervisor at the Masaryk University, Brno, Czech Republic (2016 2018)
- Co-supervision of two bachelor's degree final year dissertation projects, **UoB** (2012-2015)
- Research supervision and training for master's and bachelor's degree students, Jet Propulsion Laboratory, NASA (2010)
- Demonstrating, field trip supervision (UK and Greenland), tutoring and marking essays/exams, **UoB** and **UCL** (2008-2014)

- Teaching assistant for UCL bachelor's degree astronomy and astrophysics classes, ULO (2010-2011)
- Teaching assistant for outreach in astrobiology, astronomy and geology at numerous schools in London and Bristol, UK (2008-2014)

Organizational and administrative experience:

- Leader, manager and chief fundraising officer for expeditions to extreme environments on all seven continents through the non-profits XtremeFrontiers in the USA and Michaela Musilová, o.z. in Slovakia (2021 – present)
- Managing over 40 analog Moon and Mars missions in collaboration with space agencies, academic institutions, companies and independent organizations from all over the world. This includes managing the mission crews, staff, tens of volunteers and overseeing all of the research, technological and outreach projects too. (2018 – 2022)
- Advisory Board Member for outreach, education and space for STEM Punks, Australia (2020-present)
- Technical Program Co-chair for the International Conference on Mechanical and Aerospace Engineering (ICMAE) 2018-2020
- International Publicity Co-chair for ICMAE 2017
- Scientific Organizing Committee member of the European Mars Conference 2017
- Co-organised, with the Ministry of Education, Science, Research and Sport of the Slovak Republic, several ESA and PECS meetings and workshops for the Slovak space research and industry communities, Bratislava, Slovakia (2015 2019)
- Organising steering committee member for the International Glaciological Society British Branch Meeting (UoB, 2014), UK
 Antarctic meeting (UoB, 2014) and the 'Glacial microbiology and biogeochemistry' Workshop (UoB, 2013)
- PhD student representative, UoB (2012-2014)
- Undergraduate student and departmental representative, UCL (2008-2010)
- Student mentor and visiting students' ambassador, UCL (2008-2011)
- Museum assistant, UCL Geology Museums and Collections (2008)

Publications:

- Musilová, M. (2024) Life Sciences. Space Research in Slovakia 2022 2023. COSPAR Slovak National Committee. ISBN: 978-80-89998-38-8, <u>https://nccospar.saske.sk/REPORT20222023/SPACERESEARCHINSLOVAKIA20222023.pdf</u>
- Fishman, C.B., Bevilacqua, J. G., Hahn, A. S., Morgan-Lang, C., Wagner, N., Gadson, O., McAdam, A. C., Bleacher, J., Achilles, C., Knudson, C., Millan, M. M., Bower, D. M., Musilova, M. & Johnson, S. S. (2023) Extreme Niche Partitioning and Microbial Dark Matter in a Mauna Loa Lava Tube. *Journal of Geophysical Research: Planets*, 128:6, e2022JE007283, doi: https://doi.org/10.1029/2022JE007283
- Millan, M., Napoleoni, M., McAdam, A. C., Bower, D. M., Knudson, C. A., Achilles, C., Fishman, C., Bleacher, J. E., Young, K. & Musilova, M. (2022) Organic Molecules in Secondary Mineral Deposits of Mauna Loa Lava Tubes, Hawaii, as Analogs for Mars: Implications for Martian Habitability and Exploration. *Proceedings of the 44th COSPAR Scientific Assembly*, July 16-24, 2022. Abstract F3.3-0001-22.
- Musilová, M. (2022) Life Sciences. Space Research in Slovakia 2020 -2021. COSPAR Slovak National Committee. ISBN: 978-80-89998-24-1, <u>https://nccospar.saske.sk/REPORT20202021/SPACERESEARCHINSLOVAKIA20202021.pdf</u>
- Pouwels, C., Nunes, A. P. C. P., Musilova, M., Toop-Rose, J., Poli, E. C. & Foing, B. (2022) An Endorsement to Utilize Terrestrial Analogs as Support for the Upcoming Artemis Missions. *Proceedings of the 53rd Lunar and Planetary Science Conference*, March 7-11, 2022, The Woodlands, Texas, USA. LPI Contribution No. 2678, 2022, id.1902
- Musilova, M., McAdam, A. C., Seto, E.P., Bower, D. M., Millan, M., & Fishman, C. (2021) Lessons learned from human lava tube exploration and research during simulated lunar and Martian missions at the HI-SEAS space research station. *Proceedings of the 72nd International Astronautical Congress (IAC) by the International Astronautical Federation (IAF)*, 25-29 October 2021, Dubai, UAE. Paper IAC-21,A5,2,13,x66867
- Musilova, M., Ojeda, O., Fischer, J., Brown, E., Edwards, B. & Maxwell, Z. (2021) Selene III: Challenges and lessons learned during an analog lunar mission at the HI-SEAS research station. *Proceedings of the 72nd International Astronautical Congress (IAC) by the International Astronautical Federation (IAF)*, 25-29 October 2021, Dubai, UAE. Paper IAC-21,A5,1,12,x66971
- Neidlinger, K. & Musilova, M. (2021) Algae Textile and Bioplastic Kit for Space Travel and Sustainable Living Applications. Proceedings of the 72nd International Astronautical Congress (IAC) by the International Astronautical Federation (IAF), 25-29 October 2021, Dubai, UAE. Paper IAC-21,D4,2,8,x66977

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Fieldwork – including educational and research expeditions:

Leader of expeditions on all seven continents.

Languages:

- Fluent in: English, Slovak, French, Italian and Czech
- Intermediate: German
- Beginner: Japanese, Chinese, Russian and Hawaiian

Extracurricular activities and achievements:

Patron/Ambassador of educational programs:

• "I'm an expert" – an educational program from young women and girls with aspirations in science and technology (2023 – present):

https://dualnaakademia.sk/aktuality/den-dievcat-v-dualke-iniciativa-som-expertka/

• Mission to Mars student competition (2016 - present)

https://energoland.sk/misia-mars/

• Duke of Edinburgh's Award (DofE) Slovakia patron (2016 - present)

http://www.dofe.sk/sk/patroni-a-podporovatelia/

International relations:

- Slovak delegate to the International Astronautical Congress with the Ministry of Education of Slovakia (Paris, 2022)
- Slovak delegate with the Slovak president during his business orientated visit to Israel (2017)
- Slovak delegate at the Space Generation Congress (SGC) in the Exploration Working Group (Mexico, 2016)
- Slovak delegate to ESA and PECS meetings at the ESA Headquarters in Paris (2015-2016)
- Leader of several groups, as part of the International Space University's team that participated in the ESA Moon Challenge (2015)
- Leader of several groups, as part of the International Space University's team that participated in the NASA Challenge "Converting in situ Materials on a Planet to Support Exploration" (2015)
- First prize winner three years in a row for UNESCO educational programmes in Slovakia (2001-2004)
- Slovak representative at UNESCO meetings in Italy, Romania and Slovakia (2002-2004)

Fundraising:

- Fundraising for the Shaw Trust Charity by running the London Marathon 2016
- Fundraising for charities by helping organize and run different performances, pop-up restaurants and other events
- Fundraising for research and educational expeditions within Europe and the USA

Volunteering:

- DofE Slovakia and the International Award (2016- present)
- SOSA (2015-2019)
- Volunteering as a leader for several teams for the International Space Analogues (ISA) organization (2015-2017)
- 18 months of voluntary work at the Third Age Project in London (part of the Duke of Edinburgh's Gold Award (DoE))
- Volunteering Awards from UCL for 2007-2008 and 2008-2009

Competition judge:

- Mission to Mars student competition in Slovakia (2016 present)
- European Mars Conference student competition judge, Innsbruck, Austria (2017)
- **Mission to Mars student competition** for the Mission Mars competition for high school and university students in Slovakia (2016 present)
- Science fiction and fantasy writing competition judge in Slovakia (2015)

Arts:

- First prize for painting in the Rotary Club International art contest in Italy winning €600
- Second prize for photography of the Swiss Institute in Rome winning an all-expenses paid holiday to Switzerland

Sports:

• cross country running, dancing, scuba diving, tennis, badminton, skiing, swimming and hiking

References upon request