Personal details:

Education:

10/2012-01/2017	PhD in Meteorology and Climatology, Faculty of Mathematics and Physics,
	Charles University (MFF UK), Czech Republic
10/2010-09/2012	MSc in Meteorology and Climatology, MFF UK, Czech Republic
10/2007-09/2010	BSc in General Physics, MFF UK, Czech Republic

Position(s):

since 01/2019	Visiting Researcher, Institute of Meteorology and Climatology, University of
	Natural Resources and Life Sciences (BOKU), Vienna, Austria
since 05/2017	Academic Researcher, Faculty of Mathematics and Physics, Department of
	Atmospheric Physics, Charles University, Czech Republic
02/2017-12/2018	Postdoctoral Researcher, Environmental Physics Laboratory, University of
	Vigo, Spain
02/2015-04/2017	Research Associate, Faculty of Mathematics and Physics, Department of
	Atmospheric Physics, Charles University, Czech Republic

<u>Net research experience:</u> 4 years of doctoral studies, 5 years after the PhD title.

Significant international activities:

2020 - present	Postdoctoral fellowship in the frame of International mobility of researchers
	at Charles University MSCA-IF III (CZ.02.2.69/0.0/0.0/19 074/0016231), host
	institution: Institute of Meteorology and Climatology, University of Natural
	Resources and Life Sciences (BOKU-MET), Vienna, Austria.
2021 - present	Member of the Wave and Dynamics working group and of the Cold-Air-
	Pools task team of the TEAMx programme.
2019 - 2020	Postdoctoral fellowship of the Xunta de Galicia (Regional government of
	Galicia) for a research stay abroad, host institution: BOKU-MET, Austria.

2018 - 2021	Member of the of the international team on New Quantitative Constraints
	on Orographic Gravity Wave Stress by the International Space Science
	Institute, Bern (ISSI) led by Dr. J. Alexander.
2014 - 2015	DAAD PhD scholarship for a research stay (3-months), University Leipzig,
	Germany
2013 - 2014	OEAD PhD scholarship (AKTION) for a PhD research stay (4-months),
	University of Graz, Austria

Scientific performance and 3 selected publications since 2019:

Author and co-author of **18** (12 since 2019) **peer-reviewed publications** in impacted international journals. **H-index**: 7 (WoS, 2021), 6 (Scopus, 2021), 8 (Google Scholar, 2022; i10-index: 7) **Number of citations**: 108 (WoS, 2021), 110 (Scopus, 2021), 154 (Google Scholar, 2022).

Šácha, P., Kuchar, A., Eichinger, R., Pisoft, P., Jacobi, C., and Rieder, H. E. (2021). Diverse dynamical response to orographic gravity wave drag hotspots—a zonal mean perspective. Geophysical Research Letters, 48, e2021GL093305. <u>https://doi.org/10.1029/2021GL093305</u>

Kruse, C. G., Alexander, M. J., Hoffmann, L., van Niekerk, A., Polichtchouk, I., Bacmeister, J. T., Holt, L., Plougonven, R., **Šácha, P.,** Wright, C., Sato, K., Shibuya, R., Gisinger, S., Ern, M., Meyer, C. I., & Stein, O. (2022). Observed and Modeled Mountain Waves from the Surface to the Mesosphere near the Drake Passage, Journal of the Atmospheric Sciences, 79(4), 909-932.

Eichinger, R and Šácha, P. (2020). Overestimated acceleration of the advective Brewer– Dobson circulation due to stratospheric cooling. QJR Meteorol. Soc., 146, 3850–3864, https://doi.org/10.1002/qj.3876.

Invited presentations since 2019:

SPARC Gravity wave Symposium, Frankfurt, 28.03.-01.04.2022. Title: Interaction between parameterized orographic gravity wave drag and resolved dynamics in chemistry-climate models.

Colloquium of the Leibniz Institute of Atmospheric Physics, Kühlungsborn, 28.01.2021. Title of the talk: On the complex interaction between parameterized orographic gravity wave drag and resolved dynamics in chemistry-climate models.

Special seminar of the Center for Earth System Research and Sustainability, University of Hamburg, 28.5. 2019. Title of the talk: How do gravity wave parameterizations influence atmospheric transport in current generation global climate models?

Supervision of students and teaching since 2019:

Currently **supervising** 1 doctoral, 1 graduate and 1 undergraduate student at MFF UK and former supervisor to 2 successfully **defended theses** (batchelor and diploma) at MFF UK. **Guarantor** and lecturer of 2 courses for BSc students and MSc students at MFF UK. **Lecturer** and collaborator of 3 MSc and PhD courses at the Department of Atmospheric Physics at MFF UK.