

Dr. Catalina Munteanu

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Professional Appointments

- October 2020-present **Visiting Marie Skłodowska-Curie Researcher** • *Interdisciplinary Centre for Conservation Science, Zoology Department, Oxford University, UK.*
Research area: Shifting baselines syndrome; Advisor: Prof. E.J. Milner-Gulland
- December 2018-present **Marie Skłodowska-Curie Fellow** • *Conservation Biogeography Lab, Geography Department, Humboldt-University Berlin, Germany.*
Research area: Leveraging the potential of spy satellite data for ecology and conservation; Advisor: Prof. Tobias Kuemmerle
- September 2017–November 2018 **Maternity Leave** • *9/2017 – 11/2017 - Mutterschutz, 11/2017–11/2018 – Elternzeit*
- October 2016–September 2017 **Postdoctoral researcher** • *Leibniz Institute of Agricultural Development in Transition Economies, Halle, Germany.*
Research area: Long term agricultural land use change in Kazakhstan;
Advisor: PD. Dr. Daniel Müller
- January 2012–September 2016 **Research Assistant** • *Forest and Wildlife Ecology, University of Wisconsin, Madison, USA.*
Research area: Long-term land use trends and their legacies in the Carpathian Region of Eastern Europe; Advisor: Prof. Volker Radeloff;
Thesis Defended: 2 May 2016; Degree conferred: 24 December 2016
- September 2009–September 2011 **Research Assistant** • *Center for Mountain Studies, Univ. of Highlands and Islands, UK;*
Research area: Knowledge exchange in mountain areas (mountain.TRIP);
Advisor: Prof. Martin Price
- 2007–2009 **Project Consultancies** •
WWF- Danubian-Carpathian Program, Romania
Austrian Alpine Association, Innsbruck, Austria
Nature Park Munții Maramureșului, Vișeu de Sus, Romania

Education

- January 2012–December 2016 **Ph.D. in Forest and Wildlife Ecology** • *University of Wisconsin-Madison.* Thesis: Long-term land use trends and their legacies in the Carpathian Region of Eastern Europe; Advisor: Prof. Volker Radeloff
Thesis was awarded “2016 Best PhD in Forestry Program 2016” (see Honors and Awards section)

- September 2005- June 2008 **Magistra rerum naturalium** • *University of Innsbruck, Austria, Institute of Geography*. Thesis: Cultural landscapes in the Maramures Mountains, Romania Advisers: Prof. Kurt Scharr and Prof. Clemens Geitner
- September 2002- June 2008 **Diploma in Geography and Foreign Languages** • *Babeş-Bolyai-University, Cluj Napoca, Romania*

Grants

2018-2020	European Commission, Horizon 2020 • <i>Marie Sklodowska-Curie Research Fellowship</i> . Title: EcoSpy: Leveraging the potential of historical spy satellite photography for ecology and conservation. PI	170.000€
2014-2016	The National Aeronautics and Space Administration (NASA) • <i>Earth and Space Science (NESSF) Fellowship</i> . Title: Long-Term Forest Dynamics in Mountain Regions Accounting for Topography, Land Use History and Management Regimes to Identify High Conservation-Value Ecosystems. PI	120.000€
2011 (declined)	Österreichische Akademie der Wissenschaften • <i>[DOC] Doctoral Fellowship</i> . Title: Cultural landscapes in the Romanian Carpathians – a participatory approach to understanding patterns of change. PI	114.000€
2020	Humboldt University of Berlin • <i>Start-up funds for Researchj Grant Preparation</i> . Title: Overcoming the Shifting Baseline Syndrome for Sustainable Action. PI	25.000€
2010	EU Regional Development Fund and Scottish Government • <i>Knowledge exchange funds</i> . Title: Knowledge Transfer Partnership with the Cairngorms National Park Authority, Scotland. PI	12.000€
2018	University of Transilvania, Brasov • <i>Transilvania Fellowship for Young Researchers</i> . Title: Assessing marmot population dynamics since 1960 using Corona, Google Earth and Landsat in Kazakhstan. PI	4.500€
2019-2020	Leibniz Institute of Freshwater Ecology and Inland Fisheries • <i>Young Creatives Microprojects</i> . Title: AquaSpy: Leveraging historical spy satellite imagery for long-term research in aquatic science. Co-PI	5.000€
2010	Edinburgh Beltane, Scotland; Wisconsin Ecology, USA • Miscellaneous knowledge exchange and science communication grants	8.000€

2009-2015 **University of Wisconsin-Madison, University of Innsbruck, Austria** • Miscellaneous travel grants **10.000€**

Honors and Awards

- 2018 **Transilvania Fellowship for Young Researchers** • University of Transilvania, Brasov, Romania
- 2016 **Best PhD Award** • Forestry Program, University of Wisconsin Madison, USA
- 2016 **Young Scientist Award** • Global Land Programme Open Science Meeting, China
- 2014 **Best Student Paper Award** • Forum Carpaticum Conference, Poland
- 2014 **Conservation Leaders for Tomorrow Scholarship** • Dundee, IL, USA
- 2008 **Erasmus Intensive Programme Lifelong Learning Program** • Institute of Geography, University of Innsbruck, Austria

Teaching Experience

- 2021 **Shifting Baselines Syndrome** • MSc, 4 contact hours (single occurrence), Humboldt University Berlin, 18 participants
Responsibilities: course design, lecture, practical activities
- 2019 **Scientific Writing** • MSc, 2 contact hours per week, Humboldt University Berlin, 26 participants
Responsibilities: lead lecturer; course design, lecture, practical activities,
- 2017 **Introduction to GIS and GPS** • PhD, 2 contact hours per week, IAMO Leibniz Institute of Agricultural Development in Transition Economies, 15 participants
Responsibilities: lead lecturer; course design, lecture, field data collection, practical activities
- 2015/2016 **Forest Biometry** • BSc, 4 contact hours per week, University of Wisconsin-Madison, 15 participants
Responsibilities: teaching assistant, lecture, computer labs, field data collection
- 2014 **Study project and practical course Carpathians** • BSc, 1 week field course, Humboldt University Berlin, 24 Participants
Responsibilities: teaching assistant, field data collection, mentoring
- 2009 **Europe's socio-cultural borders - inherited perceptions and the modern landscapes** • BSc, 2 week field course, University of Innsbruck, 25 participants
Responsibilities: teaching assistant, field data collection, group mentoring, report evaluation
- 2006/2007/2008 **Introduction to Geographical Information Systems** • BSc, 2 contact hours per week, University of Innsbruck, 25 participants

Responsibilities: teaching assistant, computer labs, practical activities

Invited lectures and workshops

- 5.06.2019 Historical spy satellites for ecology and conservation.
German Research Center for Geosciences, Potsdam, Germany
- 30.03.2017 Not all is lost! Taking the long view to understand land use effects on biodiversity
Humboldt University of Berlin, Germany
- 9.09.2016 19th century land use legacies and their conservation implications in the Carpathian Mountains
Swiss Federal Research Institute for Forest, Snow and Landscape Research (WSL), Switzerland
- 26.05.2016 Land use legacies in the Carpathian Mountains
School of Earth, Energy and Environmental Sciences, Stanford University, USA
- 13- Writing Scientific Papers
- 18.07.2015 *The National Aeronautics and Space Administration (NASA) SCERIN 3 Land Use and Land Cover Change Training Workshop, Braşov, Romania*
- 1.02.2014 Understanding where we're coming from and where we're going: Unearthing 200 years of land use history in the Carpathians and their importance to current land change
Center for Russia, East Europe, and Central Asia (CREECA), University of Wisconsin-Madison, USA
- 16.10.2014 LCLUC in Carpathians during the last 200 years
International NASA Land Cover Land Use Change (LCLUC) Regional Science Meeting in Central Europe, Sopron, Hungary
- 9.06.2014 Why past land use patterns? Learning from the Carpathians.
The National Aeronautics and Space Administration (NASA), SCERIN 2 Regional Meeting, Jagiellonian University, Kraków, Poland
- 14.5.2014 Historic and recent land cover changes in the Carpathians
Environmental Remote Sensing and Geoinformatics, University of Trier, Germany
- 12.12.2013 Understanding Where We're Coming from and Where We're Going: Unearthing 200 Years of Land Use History in the Carpathians and their Importance to Current Land Change.
Center for Russia, East Europe, and Central Asia (CREECA), University of Wisconsin, Madison, USA

Student and Research Mentorship

- 2021 Sofia Miguel, Menendez Pelayo International University (UIMP) & Spanish National Research Council (CSIC); MSc, Main supervisor
Topic: Legacies of the Vietnam War bombing on contemporary land use and landscape fragmentation in Quang Tri Province, Vietnam
- 2021 Elisabeth Bauer, Humboldt University Berlin, Germany; BSc, Main supervisor
*Topic: Legacy effect of historical forestry on the distribution of the Ural Owl (*Strix uralensis*) in Romania*
- 2020 Julia Mari Murata, Humboldt University Berlin, Germany; BSc, Main supervisor
Topic: Investigating long-term drivers of saiga population changes in Kazakhstan
- 2020 Eleonore Zittoun, Trinity College Dublin, Ireland; MSc, Research project mentor
Topic: Estimating historical grazing intensity from Cold War Satellite imagery
- 2016 Mihai Daniel Nita, Transilvania University Brasov; PhD, Fulbright project mentor at UW Madison-Wisconsin, USA
Topic: Corona imagery for forest monitoring in Romania
- 2019 Philippe Rufin, Humboldt University Berlin; PhD Committee member
Topic: A global to regional scale assessment of dam-induced agricultural change by means of remote sensing
- 2020 Stefan Suess, Humboldt University Berlin; PhD Committee member
Topic: Mapping spatial and temporal transitions in shrublands with cover fractions from space

Teaching and Mentoring Training

- 2021 **ProFiL: Professionalisation of Women in Research and Teaching: Mentoring – Training – Networking** • *Technical University of Berlin, Germany; training, networking and mentoring for women on a professorship career path, 1 year program, ongoing*
- 2021 **Overcoming Imposter Syndrome** • Women in Natural Science Program by Dr. Cathy Sorbara, *Humboldt University Berlin, Germany; 2 hours*
- 2020 **Developing a Growth Mindset** • Women in Natural Science Program by Dr. Sabine Blackmore, *Humboldt University Berlin, Germany; 2 days*
- 2020 **Empowerment Through Emotional Intelligence** • Women in Natural Science Program by Dr. Cathy Sorbara, *Humboldt University Berlin, Germany; 1h*
- 2019 **Finding balance: Reconciling career and personal life for researchers** • Women in Natural Science Program by Dr. Síofra McSherry, *Humboldt University Berlin, Germany; 6h (1 day)*

- 2019 **Media Training and Communication Mater Class** • by Malcom Love, *BBC, British Council, Berlin, Germany*; 18h (2 days)
- 2004 **Theory and methodology of assessment** • *Babes-Bolyai University Cluj, Romania*; 21h (1 semester)
- 2004 **Theory and methodology of curriculum** • *Babes-Bolyai University Cluj, Romania*; 21h (1 semester)
- 2003 **Theory and methodology of instruction** • *Babes-Bolyai University Cluj, Romania*; 21h (1 semester)
- 2003 **Introduction to pedagogy** • *Babes-Bolyai University Cluj, Romania*; 21h (1 semester)
- 2002 **Educational psychology** • *Babes-Bolyai University Cluj, Romania*; 56h (2 semester)

Peer-Reviewed Publications

H-Index: 13; Total Citations: 865; Total Peer-reviewed Publications: 18 (of which 8 first-authored); Source: Google Scholar, 27.3.2020

- Munteanu C**, Kamp J, Nita MD, Klein N, Kramer BM, Muller D, Koshkina A, Prishchepov AV, Kuemmerle T (2020). Cold War spy satellite images reveal delayed declines in a keystone steppe species in response to agriculture; *Proceedings of the Royal Society B*; 287:20192897. [link](#)
- Uvsh, D, Gelbach S, Potapov P, **Munteanu C**, Bragina E, Radeloff VC (2020) Correlates of forest-cover change in European Russia 1989-2012, *Land Use Policy*, 96: 104648. [link](#)
- Munteanu C**, Pidgeon A, Radeloff V C (2018): Bird conservation in the Carpathian Ecoregion in light of long-term land use trends and conservation responsibility. *Biodiversity and Conservation* 27 (8), 2051-2068. [link](#)
- Nita MD, **Munteanu C**, Gutman G, Abrudan IV, Radeloff VC (2018) Widespread forest cutting in the aftermath of World War II captured by broad-scale historical Corona spy satellite photography, *Remote Sensing of Environment*, Vol 204, 322-332. [link](#)
- Lieskovský J, Kaim D, Balázs P, Boltižiar M, Chmiel M, Grabska E, Király G, Konkoly-Gyuró E, Kozak J, Antalová K, Kuchma T, Mackovčín P, Mojses M, **Munteanu C**, Ostafin K, Ostapowicz K, Shandra O, Stych P, Radeloff VC (2018), Historical land use dataset of the Carpathian region (1819–1980), *Journal of Maps* 14 (2), 644-651. [link](#)
- Munteanu C**, Kuemmerle T, Boltižiar M, Halada L, Kaim D, Király G, Konkoly-Gyuró E, Kozak J, Lieskovsky J, Mojses M, Müller D, Ostafin K, Ostapowicz K, Radeloff VC (2017): 19th century land use legacies affect agricultural abandonment, *Regional Environmental Change*, 17 (8), 2209–2222. [link](#)
- Loran C, **Munteanu C**, Verburg P H, Schmatz D, Bürgi M, Zimmermann N (2017): Long-term change in drivers of forest cover dynamics: an analysis for Switzerland (1850-2000), *Regional Environmental Change*. *Regional Environmental Change* 17(8), 2223-2235. [link](#)

- Feurdean A, **Munteanu C**, Kuemmerle T, Nielsen AB, Hutchinson SM, Ruprecht E, Persoiu A, Parr K, Hickler T (2017) Effects of socio-political transformations on semi-natural grasslands in Transilvania (CE Europe), based on pollen and historical land survey. *Regional Environmental Change*. 17 (8), 2193–2207. [link](#)
- Butsic V, **Munteanu C**, Griffiths P, Knorn J, Radeloff V C, Lieskovský J, Müller D, Kuemmerle T (2016) The impact of protected areas on forest disturbance in the Carpathian Mountains 1985-2010. *Conservation Biology*, 31(3), 570-580. [link](#)
- Alix-Garcia J, **Munteanu C**, Zhao N, Potapov AV, Prishchepov AV, Radeloff VC, Krylov A, Bragina E (2016) Drivers of forest cover change in Eastern Europe and European Russia, 1985–2012, *Land Use Policy* 59, 284-297. [link](#)
- Munteanu C**, Nita M-D, Abrudan I V., Radeloff VC (2016) Forest history is repeating itself, imposing strong legacies for Romanian forests and forestry. *Forest Ecology and Management*, 361, 179-193. [link](#)
- Kaim D, Kozak J, Kolecka N, Ziólkowska E, Ostafin K, Ostapowicz K, Gimmi U, **Munteanu C**, Radeloff V (2016): Broad scale forest cover reconstruction from historical topographic maps. *Applied Geography*, 67, 39-48. [link](#)
- Munteanu C**, Kuemmerle T, Keuler NS, Müller D, Balázs P, Dobosz M, Griffiths P, Halada L, Kaim D, Király G, Konkoly-Gyuró E, Kozak J, Lieskovsky J, Ostafin K, Ostapowicz K, Sandra O, Radeloff VC (2015) Legacies of 19th century land use shape contemporary forest cover. *Global Environmental Change*, 34, 83-94. [link](#)
- Griffiths P, Kuemmerle T, Baumann M, Radeloff, VC, Abrudan, IV, Lieskovsky, J, **Munteanu C**, Ostapowicz K, Hostert P (2014) Forest disturbances, forest recover, and changes in forest types across the Carpathian ecoregion from 1985 to 2010 based on Landsat image composites. *Remote Sensing of Environment* 151, 72–88. [link](#)
- Munteanu C**, Kuemmerle T, Boltiziar M, Butsic V, Gimmi U, Halada L, Kaim D, Király G, Konkoly-Gyuró E, Kozak J, Lieskovsky J, Moyses M, Müller D, Ostafin K, Ostapowicz K, Shandra O, Štych P, Walker S, Radeloff VC (2014) Forest and agricultural land change in the Carpathian region—A meta-analysis of long-term patterns and drivers of change. *Land Use Policy* 38, 685–697. [link](#)

Manuscripts under revision

Munteanu C, Nita MD, Senf C, Oeser J, Seidl R, Kuemmerle T (in review). Large tracts of high conservation value forests in Romania reveal new opportunities for Conservation; *Conservation Biology*

Book Chapters and Conference Proceedings

Munteanu C, Radeloff V, Griffiths P, et al. (2017) Land change in the Carpathian Region before and after major institutional changes. In: Gutman G, Radeloff VC (eds) *Land Use and Land Cover Change in Eastern Europe after the Collapse of Socialism*. Springer 2016. [link](#)

Borowski D, **Munteanu C** (2011) Biosphere Reserves in European Mountains: an Exploratory Survey. *Biosphere Reserves in the Mountains of the World*. MAB pp 35-40. [link](#)

Munteanu C, Geitner C, Scharr K (2008) Consequences of historical and modern land use on cultural landscapes and biodiversity of the Maramureş Mountains. In: Gaceu L (ed) Journal of EcoAgriTourism, Proceeding of the International Conference BIOATLAS 2008. Transilvania University of Brasov, Romania, Brasov, pp 91–98.

Conference Presentations

Munteanu C, Abrudan IV, Gutman G, Hostert P, Kamp J, Klein N, Koshkina A, Kraemer BM, Milner-Gulland EJ, Muller D, Nita MD, Prishchepov AV, Radeloff VC, Kuemmerle T (2020) – The potential of Cold War Spy Satellite imagery for ecology and conservation, A Festival of Ecology Online Conference, British Ecological Society, 24-18.12.2020

Munteanu C, Nita MD, Radeloff VC, Gutman G, Kuemmerle T (2019) – Unlocking the potential of Cold War Spy Satellite data for land change assessments, Global Land Programme Open Science Meeting, Bern, Switzerland, 24-26.04.2019

Munteanu C, Müller D, Kuemmerle T, Radeloff V (2016) - Land-use legacies from a century ago affect rates of contemporary land change, Global Land Programme Open Science Meeting, Beijing, China, 24-28.10.2016, [awarded Best Oral Presentation].

Munteanu, C, Pidgeon A, Radeloff V (2016) – Bird conservation responsibility of the Carpathian Mountains, North American Congress for Conservation Biology, Madison, Wisconsin, 18-20.07.2016

Munteanu, C, Radeloff V (2015) - Legacies of 19th century affect contemporary land cover, SCERIN-3 Capacity Building Workshop (CBW) Braşov, Romania 13-18.07.2015

Munteanu, C, Kuemmerle, T, Boltziar M, Gimmi U, Halada L, Kaim D, Király G, Konkoly-Gyuró E, Kozak J, Kysucká K, Lieskovsky J, Mackovčín J, Mojses M, Müller D, Ostafin K, Ostapowicz K, Shandra O, Radeloff V.C (2014) - 200 years of land change in the Carpathian region. Re-thinking change trajectories and land use legacies. Global Land Project Open Science Meeting. Land Transformations: Between Global Challenges and Local Realities, Berlin 19-21.03.2014

Kozak J., Gimmi U., Dobosz M., Kaim D., Kolecka N., Ostafin K., Ostapowicz K., Troll M., **Munteanu C.**, Radeloff V., (2013), Long-term land use and land cover changes in the Carpathians. Acta Biologica Cracoviensia 55, suppl. 1, 27-27. Biogeography of the Carpathians: Evolution of Biodiversity in a Spatiotemporal Context. , Kraków, Poland, 26-28.09.2013

Munteanu, C., Radeloff, V.C., Kuemmerle, T., Potapov P., Baumann M., Griffiths P., Alcantara, C., Bragina, E., Clubert P. (2013): Broad scale LCLUC in Eastern Europe: patterns, drivers and effects, NASA Land-Cover/ Land Use Change Program, SCERIN Research Network Meeting, Prague, 17- 21.07.2013

Munteanu, C, Boltziar M, Gimmi, U; Halada L; Kaim D, Kiraly G, Konkoly-Gyuro, E; Kozak, J; Kuemmerle T; Lieskovsky J, Mojses, M; Nagy D, Ostafin K, Ostapowicz K, Shandra O; Troll, M, Radeloff, V (2012): A meta-analysis of drivers and patterns of land use change in the Carpathians and the Carpathian Basin In M. Boltziar (Ed.), Forum Carparicum 2012 – Conference Abstracts: From Data to Knowledge, From Knowledge to Action. Stara Lesna.

Munteanu, C (2010) - mountain.TRIP: Transforming Research Into Practice, FP7 EC funded project, SEEmore Networking Conference, Timisoara, Romania, 27.08.2010

Munteanu, C, Price M (2010) – Research to close the gap between science and practice as European Mountains face Global Change, UHI Research Conference, Moray College, Elgin, Scotland, 27-29.10.2010

Conference Posters

Munteanu C, Kuemmerle T, Keuler NS, Müller D, Balázs P, Dobosz M, Griffiths P, Halada L, Kaim D, Király G, Konkoly-Gyuró E, Kozak J, Lieskovsky J, Ostafin K, Ostapowicz K, Sandra O, Radeloff VC (2015): Legacies of 19th century land use shape contemporary forest cover, Wisconsin Ecology Symposium, March 11-12, 2015

Munteanu, C., Kuemmerle, T., Kozak, J., Halada L., Gimmi, U., Kiraly, G., Konkoly-Gyuro, E., Kaim D., Ostapowicz, K., Ostafin K., Lieskovsky J., Boltizar, M., Shandra O., Stych P., Griffiths P., Mueller, D., Alix-Garcia, J., Walker, S., Radeloff V.C. (2013): 250 years of land use history in the Carpathian Region. NASA Land-Cover/ Land-Use Change Program Science Team Meeting, Rockville, Maryland, 2-4.04.2013

Geitner, C; **Munteanu, C**; Scharr K (2008) – Driving Forces and Consequences of Land Use Change on Landscapes of the Maramureş Mountains (Romania), IALE 2008, Bonn, Deutschland, 10.2008

Munteanu, C.; Geitner, C.; Scharr, K. (2008) – Consequences of Historical and Modern Landuse on Cultural Landscapes and Biodiversity of the Maramureş Mountains, S4C Networking Workshop, Kraków, Poland, 05.2008

Media Coverage and Outreach Activities

- 2020 **The New York Times** • It Spied on Soviet Atomic Bombs. Now It's Solving Ecological Mysteries. [[press interview](#)]
- 2020 **The Telegraph** • Cold War Spy Satellite Images used to track ecological change [[press interview](#)]
- 2020 **The Scientist** • Farming Associated with Long-Term Decline in Marmot Populations [[press interview](#)]
- 2020 **Science Magazine** • Cold War satellites inadvertently tracked species declines coverage [[press interview](#)]
- 2020 **New Scientist** • Cold war spy satellite images reveal long-term decline in biodiversity, [[press interview](#)]
- 2020 **BBC Public Radio** • Cold War 'CORONA' satellite images find second life in ecology research [[podcast](#)]
- 2019 **FameLab** • Winner of Regional Competition in Brandenburg & finalist for Germany [[outreach talk](#)]
- 2018 Assessing land-use change using spy-satellite photographs from the Cold War period, The Leibniz Institute for Agricultural Development in Transition Economics Annual Series [[outreach article](#)]
- 2016 **3-Minute Thesis Competition** • University of Madison-Wisconsin [[outreach talk](#)]

- 2016 Land Use Legacies: What We Do in Life Echoes in Eternity, Edge Effects blog post: [\[outreach article\]](#)
- 2011 Mountain foods: set of brochures and workshop template on how to better market mountain food products [\[brochures\]](#)
- 2010 Interview on mountain.TRIP knowledge exchange project [\[interview\]](#)

Professional Associations and Service

S4C Science for the Carpathians Scientific Steering Committee, since 2018
 Society for Conservation Biology, since 2016
 Global Land Programme (GLP), since 2014
 Forest and Wildlife Ecology Graduate Student Representative, UW Madison, 2014-2016
 Center for Culture, History and Environment (CHE), UW Madison, Wisconsin, 2014-2016
 Wisconsin Ecology – Graduate Student Organization, UW Madison, Wisconsin, 2013-2016
 Novel Ecosystem IGERT Program, UW Madison, Wisconsin, 2012-2016
 Scottish Royal Geographical Society, 2009 - 2012
 Mountain Research Initiative European Network, since 2008

Manuscript Peer-reviewer

Ecosystems, Landscape Ecology, Biological Conservation, Land Use Policy, Regional, Environmental Change, Global Ecology and Biogeography, Landscape and Urban Planning, Mountain Research and Development, Land, Sustainability, Forests

Technical skills

Spatial analysis: ArcGIS, QGIS, R, SagaGIS, Guidos
 Image processing: AgiSoft Metashape, eCognition, ENVI
 Statistical analysis: R

Language proficiency

English, German, Romanian	Advanced (<i>fluent in writing and speaking</i>)
Spanish	Intermediate (<i>conversation, basic writing skills</i>)
Italian, French	Beginner (<i>basic conversation</i>)