

Dr.sc. Marija Horvat, dipl.ing.geol.

(matični broj znanstvenika 256271)

Poveznica s CroRis profilom: <https://www.croris.hr/osobe/profil/15948>

OBRAZOVANJE

2005. godine doktorirala na Doktorskoj školi za geoznanosti Sveučilišta Eötvös Loránd, Budimpešta, Mađarska, smjer petrologija i geokemija; naslov disertacije "Geochemistry and Petrology of Granitoids of Papuk and Psunj Mts. (Slavonia, Croatia)"

1995. godine diplomirala na Zajedničkom studiju geologije Rudarsko-geološko-naftnog i Prirodoslovno-matematičkog fakulteta Sveučilišta u Zagrebu, smjer mineralogija i petrologija; naslov diplomskog rada "Efuzivne stijene iz bušotina istočnog dijela dravske depresije"

ZAPOSLENJE

2019–danas: viši znanstveni suradnik

2013–2019: znanstveni suradnik

2007–2012: viši asistent

2002–2006: znanstveni novak - asistent

Od 2002. godine zaposlena u Zavodu za geologiju u Institutu za geološka istraživanja, danas Hrvatski geološki institut, Zagreb, Republika Hrvatska.

Od 2016. radi na skenirajućem elektronskom mikroskopu (SEM).

NASTAVNA AKTIVNOST

2020. godine izabrana u *naslovno* znanstveno-nastavno zvanje izvanrednog profesora

2015. godine izabrana u *naslovno* znanstveno-nastavno zvanje docentice u području prirodnih znanosti, polje: geologija, grana: mineralogija i petrologija na Rudarsko-geološko-naftnom fakultetu Sveučilišta u Zagrebu.

Povremeno član ocjenjivačkih povjerenstava i povjerenstava za obranu dodiplomskih, diplomskih i doktorskih radova.

KOMPETITIVNI NACIONALNI ISTRAŽIVAČKI PROJEKTI

2020–2024: suradnik na HRZZ istraživačkom projektu "Dinaridski predgorski bazen između dva eocenska termalna optimuma: mogući scenarij za sjevernojadranski bazen" (BREEMECO)

<https://projectbreemeco.wordpress.com/>

2019–2023: suradnik na HRZZ istraživačkom projektu "Vulkano-sedimentne sukcesije sjeverozapadne Hrvatske i njihova uloga u razumijevanju geodinamike Paleotetisa tijekom srednjeg trijasa" (GOST) <https://projectgost.wordpress.com/>

2013–2019: suradnik istraživač na internom temeljnom projektu Hrvatskog geološkog instituta "Osnovna geološka karta Republike Hrvatske 1:50.000" (višegodišnje institucijsko financiranje znanstvene djelatnosti). Geološko kartiranje, rad na bazi podataka, mineralogija, petrografija i petrokronološka karakterizacija stijena Papuka i Požeške gore u Slavoniji.

2006–2013: suradnik istraživač na projektu "Osnovna geološka karta Republike Hrvatske 1:50.000" (181-1811096-1093). Istraživanja su usmjerena na mineralogiju, geokemiju i petrologiju magmatskih i piroklastičnih stijena u Hrvatskoj (projektno područje - Slavonija). Pored toga na geološko kartiranje vulkanita i sedimentnih naslaga i petrografiju krupnoklastičnih sedimenata u Slavoniji.

2002–2006: suradnik istraživač na projektu „Osnovna geokemijska karta Republike Hrvatske“ (0181006) na bazi podataka

KOMPETITIVNI MEĐUNARODNI ISTRAŽIVAČKI PROJEKTI

2018–2021: suradnik na projektu GeoERA – „EuroLithos: European Ornamental stone resources“ u okviru teme mineralne sirovine, ERA-NET Co-fund sheme u sklopu programa Obzor 2020 u domeni tehničke petrografije

2007–2010: suradnik u realizaciji dva mađarsko-hrvatska projekta koji su zajednički odrađivali Geological Institute of Hungary (Budapest) i Hrvatski geološki institut (Zagreb)

„Usklađivanje rezultata geološkog kartiranja u području Baranje“ (2009–2010) i „Usklađivanje i korelacija rezultata kartiranja kvartarnih naslaga u dravskoj depresiji“ (2007–2008)

ORGANIZACIJA ZNANSTVENIH SASTANAKA (član Organizacijskog Odbora)

2019. – 6. hrvatski geološki kongres s međunarodnim sudjelovanjem (09.–12.10.2019. Zagreb, Hrvatska)

2018. – 9th Mid-European Clay Conference - MECC2018 (17.-21.09.2018. Zagreb, Hrvatska)

2017. – 7th International Workshop "Neogene of Central and South-Eastern Europe" (28-31.05.2017. Velika, Hrvatska)

2015. – 5. Hrvatski geološki kongres s međunarodnim sudjelovanjem (23.–25.09.2015. Osijek, Hrvatska)

2010. – 4. Hrvatski geološki kongres s međunarodnim sudjelovanjem (14.–15.10.2010. Šibenik, Hrvatska)

2006. – 8. World Summit of Hungarian Earth Scientists HUNGEO 2006 (21.-25.08.2006. Pécs-Zagreb, Mađarska-Hrvatska)

USAVRŠAVANJA

23.02.2021. On-line radionica „Practical advice in sample preparation for SEM imaging“. Organizator: Quorum Technologies.

15.-18.05.2018. London, Ujedinjeno Kraljevstvo – Natural History Museum „Analytical SEM and Electron Probe Microanalysis (EPMA) in the geological sciences“

22–23.04.2017. Beč, Austrija – „Petrochronology: Methods and Applications“

18.–29.01.2010. Beč, Austrija – Short course “Mass spectrometry in Earth Sciences: isotopic- and elemental analyses”

UREDNIŠTVO

2008–danas: tehnički urednik časopisa *Geologia Croatica*

2004.–2010. urednik Biltena Odbora za geokemiju HAZU

ČLANSTVA

2002–danas: Hrvatsko geološko društvo

2004–danas: Odbor za geokemiju HAZU

Marija Horvat, PhD

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EDUCATION

2005. PhD in Geology (Petrology and Geochemistry), Eötvös Loránd University, Doctoral School of Earth Sciences, Budapest, Hungary (title “Geochemistry and petrology of granitoids of Papuk and Psunj Mts. (Slavonia, Croatia)“)

1995. B.Sc. in Geology (Mineralogy and Petrology), joint study of geology organized by Faculty of Mining, Geology and Petroleum Engineering and Faculty of Science, University of Zagreb, Croatia (graduate thesis title “Extrusive rocks in boreholes from the eastern part of the Drava depression”)

AFFILIATION

2019–today: Senior Research Associate

2013–2019: Research Associate

2007–2012: Senior Assistant

2002–2006: Assistant

Since 2002 affiliated at the Department of Geology, Institute of Geology (Croatian Geological Survey today) in Zagreb, Croatia.

Since 2016 works on scanning electron microscope (SEM).

TEACHING ACTIVITY

2021–today: nominal title of Associate Professor at the University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering, Croatia

2015–2020: nominal title of Assistant Professor at the University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering, Croatia

Occasionally, member of evaluation commissions and commission for undergraduate, graduate and doctoral theses defence.

COMPETITIVE NATIONAL RESEARCH PROJECTS

2020–2024: project associate, Croatian Science Foundation Research Project no. IP-2019-04-5775 (BREEMECO) “Dinaridic foreland basin between two Eocene thermal optima: a possible scenario for the Northern Adriatic” <https://projectbreemeco.wordpress.com/>

2019–2023: project associate, Croatian Science Foundation Research Project no. IP -2019-04-3824 (GOST) “Revealing Middle Triassic Paleotethyan Geodynamics Recorded in the Volcano-Sedimentary Successions of NW Croatia” <https://projectgost.wordpress.com/>

2013–2019: geological mapping, data base, mineralogy, petrography and petrochronological characterization of rocks of Mt. Papuk and Požeška gora in Slavonia through internal project of Croatian Geological Survey Basic Geological Map of the Republic of Croatia 1:50.000 (committed long-term institutional funding of the scientific activity).

2006–2013: project associate at the “Basic Geological Map of the Republic of Croatia 1:50.000” (181-1811096-1093). Investigations are focused on mineralogy, geochemistry and petrology of igneous and pyroclastic rocks in Croatia (project area – Slavonia). In addition, geological mapping of volcanic rocks and sediment deposits and coarse-grained petrography of sediments in Slavonia.

2002–2006: project associate at the “Basic Geochemical Map of the Republic of Croatia” (0181006) works on databases.

COMPETITIVE INTERNATIONAL RESEARCH PROJECTS

2018–2021 project associate at GeoERA – „EuroLithos: European Ornamental stone resources“– ERA-NET Co-fund scheme of the HORIZON 2020 program in the field of technical petrography.

2007–2010 project associate at joint research projects of Geological Institute of Hungary (Budapest) and Croatian Geological Survey (Zagreb): “Harmonization of geological mapping results in Baranya region” (2009–2010) and “Harmonization and correlation of Quaternary mapping results in the Drava Basin” (2007–2008)

ORGANIZATION OF SCIENTIFIC MEETINGS *(member of the Organizing Committee)*

2019. – 6th Croatian Geological Congress with international participation (09.–12.10.2019. Zagreb, Croatia)

2018. – 9th Mid-European Clay Conference - MECC2018 (17.–21.09.2018. Zagreb, Croatia)

2017. – 7th International Workshop "Neogene of Central and South-Eastern Europe" (28–31.05.2017. Velika, Croatia)

2015. – 5th Croatian Geological Congress with international participation (23.–25.09.2015. Osijek, Croatia)
2010. – 4th Croatian Geological Congress with international participation (14.–15.10.2010. Šibenik, Croatia)
2006. – 8th World Summit of Hungarian Earth Scientists HUNGEO 2006 (21.–25.08.2006. Pécs-Zagreb, Hungary-Croatia)

TRAININGS

23.02.2021. „Practical advice in sample preparation for SEM imaging“. Organizer: Quorum Technologies.
15.–18.05.2018. London, United Kingdom – Natural History Museum „Analytical SEM and Electron Probe Microanalysis (EPMA) in the geological sciences“ training
22–23.04.2017. Vienna, Austria – „Petrochronology: Methods and Applications“ short course
18.–29.01.2010. Vienna, Austria – Short course “Mass spectrometry in Earth Sciences: isotopic- and elemental analyses”

EDITING

Technical Editor of scientific journal *Geologia Croatica* (since 2008)
2004–2010: Croatian Academy of Sciences and Arts, Geochemistry Committee Bulletin Editor

MEMBERSHIPS

Croatian Geological Society (since 2002), Geochemistry Committee of Croatian Academy of Sciences and Arts (since 2004)