

Curriculum Vitae (May 2020)

Diego Di Curzio, Ph.D.

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Current position:

Postdoctoral Research Fellow in Engineering Geology and Hydrogeology

Milestones
In 2009, he took his BSc degree in Environmental Geology at University “G. d’Annunzio” of Chieti-Pescara, Italy.
In 2013, he took his MSc degree in Engineering Geology at University “G. d’Annunzio” of Chieti-Pescara, Italy.
In 2014, he qualified as Professional Engineering Geologist.
In 2018, he defended his Ph.D. thesis in Applied and Environmental Hydrogeology at University “G. d’Annunzio” of Chieti-Pescara, Italy.
In 2018, he won a two-year Postdoctoral Research Fellowship at University “G. d’Annunzio” of Chieti-Pescara, Italy.
In 2019, he received the “G.M. Zuppi” Award 2019 for the best Doctoral thesis on Hydrogeology from the Italian Chapter of the International Association of Hydrogeologists (IAH-Italy).

Education			
Degree	Institution	Year	Thesis
Ph.D. in Applied and Environmental Hydrogeology	University “G. d’Annunzio” of Chieti-Pescara	2018	<i>“Hydrogeochemical and hydrodynamic features affecting redox processes in groundwater”</i> (Excellent) The doctoral research focused on some hydrogeochemical and hydrodynamic features that affect redox processes in groundwater, presenting different case studies and methodological approaches: (1) the advanced aquifer redox zonation, (2) the competition for organic substrate

			among different redox processes, and (3) the hydrodynamic effect on the redox condition distribution in complex aquifers.
MSc in Engineering Geology	University "G. d'Annunzio" of Chieti-Pescara	2013	<p><i>"Applied and environmental hydrogeological characterization of low Tirino valley and Popoli gorges"</i> (110/110 cum laude)</p> <p>The main objective of this thesis was the hydro-geological characterization of a complex area in Central Apennines at the field scale. Here, several aquifers interact, and a huge contaminated site is located. This research was based on field measurements, such as piezometric levels and physico-chemical parameters from borehole loggings, and hydro-geological and hydrogeochemical data analysis.</p>
BSc in Environmental Geology	University "G. d'Annunzio" of Chieti-Pescara	2009	<p><i>"Geological-environmental analysis of Tocco da Casauria area"</i> (104/110)</p> <p>This thesis dealt with geological risks and resources assessment within a specific area in Central Apennines. The study was carried out by means of a geological, geomorphological and hydrogeological survey used to build thematic maps.</p>

Academic and consultant experiences	
Period	Description
12/2018 - ongoing	<p>Postdoctoral Research fellowship at University "G. d'Annunzio" of Chieti-Pescara</p> <p>Geological, hydrogeological, hydrogeochemical, numerical and geostatistical multidisciplinary approach to get a deeper insight into the knowledge of chemical and physical processes influencing mobility, degradation and toxicity of both natural and anthropogenic inorganic and organic compounds.</p>
11/2017 - 04/2018	<p>Research fellowship at University "G. d'Annunzio" of Chieti-Pescara</p> <p>Geological conceptual model reliability and uncertainty assessment for seismic microzonation.</p>
11/2014 - 10/2017	<p>Ph.D. fellowship at University "G. d'Annunzio" of Chieti-Pescara (3-year scholarship provided by the Italian Minister of University and Education)</p> <p>Site hydro-geological characterization, groundwater quality, anthropogenic and natural contamination, multivariate geostatistical, and reactive transport modeling studies.</p>
2012 - ongoing	<p>Free-lance consultant on the following topics:</p> <ul style="list-style-type: none"> • GIS mapping and spatial analyses, database implementation and development, and execution of in situ geophysical testing (HVSr, Masw) for seismic microzonation purposes. • Execution of Pumping tests and slug tests for aquifer characterization, groundwater sampling and monitoring of piezometric levels and chemical-physical parameters for hydro-geological characterization purposes.

Teaching/Tutoring activity
<ul style="list-style-type: none"> • Teaching and tutoring activities in BSc and MSc courses on Engineering Geology, Hydrogeology and Geostatistics • Co-supervising of 7 MSc theses on Engineering Geology and Hydrogeology • Component of the scientific secretaries of Ph.D. module on Geostatistics • Delegate of Ph.D. students of InGeo Department

Editorial/Peer review activity
<ul style="list-style-type: none"> • Chief Guest Editor for the Virtual Special Issue “Multi-source data fusion of big spatial-temporal data in soil, geo-engineering and environmental studies” on <u>Science of the Total Environment</u> • Reviewer for <u>Science of the Total Environment</u> • Reviewer for <u>Journal of Environmental Management</u> • Reviewer for <u>Bulletin of Engineering Geology and the Environment</u> • Reviewer for <u>Heliyon</u> • Reviewer for <u>Acque Sotterranee-Italian Journal of Groundwater</u>

Chairman activity	
Year	Description
2018	Session IE4.3/SSS13.73/AS5.19/BG1.20/ESS11.8 HS11.4/NH11.13 “Geostatistical and statistical tools to perform the data fusion of large datasets in geo-engineering and environmental studies” (Conveners: <u>Di Curzio D.</u> , Castrignanò A., Micallef A., Rusi S., Vessia G., Viscarra Rossel R.) at the <u>EGU General Assembly 2018</u> , April 8th - 13th, 2018, Vienna, Austria.
2019	Session IS10 “Numerical techniques for integrating the spatial variability of soil and groundwater parameters into designing and environmental management” (Conveners: Vessia G., <u>Di Curzio D.</u> , Pula W.) at the <u>7th International Symposium on Geotechnical Safety and Risk (ISGSR) 2019</u> , December 11th - 13th, Taipei, Taiwan.
2020	Mini Symposium MS14 (TC304) “Multi-source and Multi-methodological Data Fusion to Improve the Reliability of Geo-engineering and Environmental Characterization, Urban planning, and Geotechnical Designing” (conveners: <u>Di Curzio D.</u> , Castrignanò A., Pula W., Vessia G.) at the <u>13th International Conference on Structural Safety & Reliability (ICOSSAR) 2021</u> , June 21st - 25th, 2021, Shanghai, China.

Awards and prizes	
Year	Description
2015	“Marcello Zalaffi” Award for MSc thesis in Hydrogeologic field (4° in the national list of selected winning theses)
2019	“G.M. Zuppi” Award 2019 for the best Doctoral thesis on Hydrogeology

Skills	
Type	Description
Language skills	<ul style="list-style-type: none"> • Italian (Mother tongue) • English (Upper intermediate level, PTE General level B2 certificate) • French (Elementary level) • Spanish (Elementary level)
Scientific skills	<p>My research and professional experiences enabled me to address studies relating to the following issues:</p> <ul style="list-style-type: none"> • Hydro-geological characterization • Groundwater monitoring • Hydrogeochemical analysis • Numerical modeling of groundwater flow and reactive transport • Statistical and fractal analysis of hydrological time series • Multivariate statistical and geostatistical analysis of environmental data • GIS analysis and Geodatabase implementation and development for geological and environmental studies • Geophysical data analysis • Groundwater multi-isotopic analysis
Practical skills	<p>My research and professional experiences enabled me to improve the following professional skills:</p> <ul style="list-style-type: none"> • Geological surveying and mapping • Piezometric level measurements • Groundwater and surface-water sampling • Chemical-physical parameters measurements and borehole logging • Spring and rivers discharge measurements • Pumping tests for aquifer characterization • Slug tests for aquifer characterization • Bathymetric measurements • Geo-electrical methods application and data analysis • Seismic methods application and data analysis
Computer skills	<p>All the research and professional experiences, put together with my academic and professional education, brought me to be an expert user of the following softwares:</p> <ul style="list-style-type: none"> • Microsoft Office • CorelDRAW Graphics Suite X8 • ArcGIS Desktop 10.X Esri • AquaChem 2014 Schlumberger Water Services • Phreeqc 3.X USGS • Isatis 2017 Geovariance • SPSS IBM Analytic • Statistica StatSoft

- ModelMuse 3.X USGS
- Visual Modflow 4.X Schlumberger Water Services
- Visual Modflow Flex Waterloo Hydrogeologic
- Notepad++ 3.X
- AutoCAD 201X
- FLAC Slope 5.X Itasca
- GeoStudio 2004
- Matlab GNU Octave
- ImageMaster Topcon

List of papers (in the last 4 years)

Journal papers

Palmucci W., Rusi S., & **Di Curzio D.** (2016) Mobilisation processes responsible for iron and manganese contamination of groundwater in Central Adriatic Italy. *Environmental Science and Pollution Research*, 23(12), 11790-11805. <https://doi.org/10.1007/s11356-016-6371-4>

Di Curzio D., Palmucci W., Rusi S. & Signanini P. (2016) Evaluation of processes controlling Fe and Mn contamination in the San Pedro Sula porous aquifer (North Western Honduras). *Rendiconti Online Società Geologica Italiana*, 41, 42-45. <https://doi.org/10.3301/ROL.2016.88>

Palmucci W., Rusi S., Pennisi M., **Di Curzio D.** (2016) Contribution of B and Sr Isotopes to assess boron contamination of groundwater: Case studies in Central Italy. *Rendiconti Online Società Geologica Italiana*, 41, 65-68. <https://doi.org/10.3301/ROL.2016.94>

Chiaudani A., **Di Curzio D.**, Palmucci W., Pasculli A., Polemio M., Rusi S. (2017) Statistical and fractal approaches on long time-series to surface-water/groundwater relationship assessment: A Central Italy alluvial plain case study. *Water*, 9(11), 850. <https://doi.org/10.3390/w9110850>

Petitta M., Mastrorillo L., Preziosi E., Banzato F., Barberio M.D., Billi A., Cambi C., De Luca G., Di Carlo G., **Di Curzio D.**, Di Salvo C., Nanni T., Palpacelli A., Rusi S., Saroli M., Tallini M., Tazioli A., Valigi D., Vivalda P., Doglioni C. (2018) Water level and discharge changes associated with the 2016-2017 seismic sequence in central Italy: hydrological data and conceptual model for fractured carbonate aquifers. *Hydrogeology Journal*, 26(4), 1009-1026. <https://doi.org/10.1007/s10040-017-1717-7>

Rusi S., **Di Curzio D.**, Palmucci W., Petaccia R. (2018) Detection of the natural origin hydrocarbon contamination in carbonate aquifers (central Apennine, Italy). *Environmental Science and Pollution Research*, 25(16), 15577-15596. <https://doi.org/10.1007/s11356-018-1769-9>

Di Curzio D., Rusi S., Semeraro R. (2018) Multi-scenario numerical modeling applied to groundwater contamination: the Popoli Gorges complex aquifer case study (Central Italy). *Acque Sotterranee-Italian Journal of Groundwater*, 7(4), 49-58. <https://doi.org/10.7343/as-2018-361>

Viaroli S., **Di Curzio D.**, Lepore D., Mazza R. (2019) Multiparameter daily time-series analysis to groundwater recharge assessment in a caldera aquifer: Roccamonfina Volcano, Italy. *Science of the Total Environment*, 676, 501-513. <https://doi.org/10.1016/j.scitotenv.2019.04.327>

Chiaudani A., **Di Curzio D.**, Rusi S. (2019) The snow and rainfall impact on the Verde spring behavior: a statistical approach on hydrodynamic and hydrochemical daily time-series. *Science of the Total Environment*, 689, 481-493. <https://doi.org/10.1016/j.scitotenv.2019.06.433>

Di Curzio D., Rusi S., Signanini P. (2019) Advanced redox zonation of the San Pedro Sula alluvial aquifer (Honduras) using data fusion and multivariate geostatistics. *Science of the Total Environment*, 695, 133796. <https://doi.org/10.1016/j.scitotenv.2019.133796>

Di Curzio D. (2019) Hydrogeochemical and hydrodynamic features affecting redox processes in groundwater. *Acque Sotterranee-Italian Journal of Groundwater*, 8(3), 7-19. <https://doi.org/10.7343/as-2019-401>

Vessia G., **Di Curzio D.**, Castrignanò A. (2020) 3D subsoil litho-technical characterization through data fusion of CPT parameters. *Science of the Total Environment*, 698, 134340.

<https://doi.org/10.1016/j.scitotenv.2019.134340>

Vessia G., **Di Curzio D.**, Chiaudani A., Rusi S. (2019) Regional rainfall threshold maps drawn through multivariate geostatistical techniques for shallow landslide early warning systems. *Science of the Total Environment*, 135815. <https://doi.org/10.1016/j.scitotenv.2019.135815>

Amanti M., Chiessi V., Muraro C., Puzzilli L., Roma M., Catalano S., Romagnoli G., Tortorici G., Cavuoto G., Albarello D., Fantozzi P.L., Paolucci E., Pieruccini P., Caprari P., Mirabella F., Della Seta M., Esposito C., **Di Curzio D.**, Francescone M., Pizzi A., Macerola L., Nocentini M., Tallini M. (2020). Geological and geotechnical models definition for 3rd level seismic microzonation studies in Central Italy. *Bulletin of Earthquake Engineering*, 1-33 (in press). <https://doi.org/10.1007/s10518-020-00843-x>

Book chapters

Vessia G., **Di Curzio D.** (2018) Lacustrine Deposits. In: Bobrowsky P., Marker B. (Eds.), *Encyclopedia of Engineering Geology*. Springer International Publishing, Cham. https://doi.org/10.1007/978-3-319-12127-7_179-1

Conference papers

Di Curzio D., Palmucci W., & Rusi S. (2014) Detailed geological characterization to define groundwater flow in Gole di Popoli (Central Eastern Apennine). *Flowpath 2014 - National Meeting on Hydrogeology*, June 18th -20th, 2014, Viterbo, Italy. In Abstract volume, 136-137.

Colantonio F., **Di Curzio D.**, Palmucci W., Rainone M.L., Rusi S., Signanini P. (2015) Geothermal potentialities of the Southern Tyrrhenian submarine volcanic district: the Marsili seamount system. *OMC - Off-shore Mediterranean Conferences & Exhibition*, March 25th - 27th, 2015, Ravenna, Italy.

Chiaudani A., Palmucci W., **Di Curzio D.**, Rusi S. (2015) Relationships between Verde spring discharge, precipitation and NAO index in Abruzzo during 1987-2005 period. *AIAM 2015 - XVIII Convegno Nazionale di Agrometeorologia - Agrometeorologia per nutrire il pianeta acqua, aria, suolo, piante, animali*, June 9th - 11th, 2015, S. Michele all'Adige (TN), Italy. In *Atti del XVIII Convegno Nazionale di Agrometeorologia*.

Chiaudani A., **Di Curzio D.**, Palmucci W., Polemio M., Rusi S. (2015) Surface-water/groundwater relationships using long time series statistical analysis. *AQUA 2015: Back to the Future! - 42nd International Congress of International Association of Hydrogeologists*, September 13th - 18th, 2015, Rome, Italy. *Rendiconti Online Società Geologica Italiana*, 39(1), 216. <https://doi.org/10.3301/ROL.2016.63>

Palmucci W., **Di Curzio D.**, Pennisi M., Rusi S. (2015) Multisopic (B and Sr) assessment of boron-rich groundwater in central Adriatic Italy. *AQUA 2015: Back to the Future! - 42nd International Congress of International Association of Hydrogeologists*, September 13th - 18th, 2015, Rome, Italy. In *Rendiconti Online Società Geologica Italiana*, 39(1), 406. <https://doi.org/10.3301/ROL.2016.63>

Palmucci W., **Di Curzio D.**, Rusi S. (2015) Redox processes affecting Fe and Mn groundwater contamination in central Adriatic Italy. *AQUA 2015: Back to the Future! - 42nd International Congress of International Association of Hydrogeologists*, September 13th - 18th, 2015, Rome, Italy. In *Rendiconti Online Società Geologica Italiana*, 39(1), 407. <https://doi.org/10.3301/ROL.2016.63>

Di Curzio D., Palmucci W., Rusi S., Tatangelo F. (2015) Ring maps applied to hydrogeological and environmental studies. *AQUA 2015: Back to the Future! - 42nd International Congress of International Association of Hydrogeologists*, September 13th - 18th, 2015, Rome, Italy. In *Rendiconti Online Società Geologica Italiana*, 39(1), 800. <https://doi.org/10.3301/ROL.2016.63>

Chiaudani A., **Di Curzio D.**, Di Lena B., Rusi S. (2016) Preliminary analysis regarding long period rainfall - piezometric levels relationships in the Peri-Adriatic Area. *AIAM 2016 - XIX Convegno Nazionale di Agrometeorologia - Nuove avversità e nuovi servizi per gli Agroecosistemi*, June 14th - 16th, 2016, Bologna, Italy. In *Atti del XIX Convegno Nazionale di Agrometeorologia*, 106-110. <https://doi.org/10.6092/unibo/amsacta/5164>

Di Curzio D., & Rusi S. (2016) Multidisciplinary approach and modeling of a case of complex contamination in an Adriatic coastal aquifer. *Geosciences on a changing planet: learning from the past, exploring the future - 88° Congresso della Società Geologica Italiana*, September 7th - 9th, 2016, Naples, Italy. In *Rendiconti Online Società Geologica Italiana*, 40(1), 800. <https://doi.org/10.3301/ROL.2016.79>

Di Curzio D., Rusi S. (2017) 1-D reactive transport modeling to evaluate the interaction among different compounds in a complex contaminated site driven by redox processes. *Flowpath Third Edition - National*

Meeting on Hydrogeology, June 14th -16th, 2017, Cagliari, Italy. In Conference Proceedings, 101-102.

Di Curzio D., Castrignanò A., Palmucci W., Rusi S., Signanini P. (2017) Multidisciplinary approach to assess the seasonal effect on redox processes occurring in a tropical alluvial aquifer. Flowpath Third Edition - National Meeting on Hydrogeology, June 14th -16th, 2017, Cagliari, Italy. In Conference Proceedings, 14-15.

Di Curzio D., Rusi S. (2017) Reactive transport modeling for the evaluation of field scale substrate competition in a complex contaminated site. Groundwater Heritage&Sustainability - 44th Annual Congress of International Association of Hydrogeologists, September 25th - 29th, 2017, Dubrovnik, Croatia.

Di Curzio D., Castrignanò A., Rusi S. (2017) Multivariate geostatistical techniques for redox zonation assessment in a tropical alluvial aquifer. Groundwater Heritage&Sustainability - 44th Annual Congress of International Association of Hydrogeologists, September 25th - 29th, 2017, Dubrovnik, Croatia.

Viaroli S., **Di Curzio D.**, Lepore D., Rusi S., Mazza R. (2018) Statistical techniques applied on multiparameter daily time series to groundwater recharge assessment in a calderic aquifer: Roccamonfina Volcano, Italy. EGU General Assembly 2018, April 8th - 13th, 2018, Vienna, Austria. In Geophysical Research Abstracts, 20, EGU2018-6765.

Di Curzio D., Rusi S., Signanini P. (2018) Advanced redox zonation of the San Pedro Sula alluvial aquifer using multivariate geostatistics. EGU General Assembly 2018, April 8th - 13th, 2018, Vienna, Austria. In Geophysical Research Abstracts, 20, EGU2018-6896-1.

Vessia G., Castrignanò A., **Di Curzio D.**, Pula W. (2018). 3D spatial variability of mechanical properties of Emilia Romagna alluvial deposits and its implications in geotechnical design of foundations. 4th International Symposium on Computational Geomechanics (COMGEO IV), May 1st - 4th, 2018, Assisi, Italy. In Conference Proceedings, 118-119.

Lepore D., Viaroli S., **Di Curzio D.**, Rusi S., Mazza R. (2018) Hydrodynamic characterization of a calderic aquifer applying a combined approach on hydrogeological time-series: the case of the Roccamonfina Volcano (Southern Italy). XIII Convegno Nazionale GIT-SI, June 11th - 13th, 2018, Sarzana (SP), Italy. In Conference Proceedings.

Di Curzio D., Castrignanò A., Rusi S., Signanini P. (2018) New insights on advanced redox zonation of aquifers using multivariate geostatistics: the San Pedro Sula case study. Geosciences for the environment, natural hazards and cultural heritage - 89° Congresso della Società Geologica Italiana, September 12th - 14th, 2018, Catania, Italy. In Conference Proceedings, 690.

Semeraro R., **Di Curzio D.**, Rusi S. (2018) Multi-scenario groundwater numerical modeling of the Popoli Gorges complex aquifer (Central Italy). Geosciences for the environment, natural hazards and cultural heritage - 89° Congresso della Società Geologica Italiana, September 12th - 14th, 2018, Catania, Italy. In Conference Proceedings, 704.

Viaroli S., **Di Curzio D.**, Lepore D., Rusi S., Mazza R. (2018) Quantification of a calderic aquifer recharge applying a multidisciplinary approach on hydrogeological time-series: the case of the Roccamonfina Volcano (southern Italy). Groundwater and Life: Science and Technology into Action - 45th Annual Congress of International Association of Hydrogeologists, September 9th - 14th, 2018, Daejeon, Korea. In Conference Proceedings, 173.

Chiaudani A., **Di Curzio D.**, Rusi S. (2019) Statistical analysis of the impact of snow melting and rainfall recharge on the discharge and physico-chemical characteristics of the Verde spring (Central Apennines). Flowpath Forth Edition - National Meeting on Hydrogeology, June 12th -14th, 2019, Milan, Italy. In Conference Proceedings, 74-75.

Di Curzio D., Rusi S. (2019) The landfill leachate impact on groundwater hydrogeochemistry in fine deposits: a multidisciplinary study. Flowpath Forth Edition - National Meeting on Hydrogeology, June 12th - 14th, 2019, Milan, Italy. In Conference Proceedings, 158-159.

Chiaudani A., **Di Curzio D.**, Rusi S. (2019) The role of snow melting and rainfall on the discharge and physico-chemical characteristics of springs: a statistical analysis in Central Apennines. Il tempo del pianeta Terra e il tempo dell'uomo: le geoscienze tra passato e futuro - Congresso Nazionale SIMP-SGI-SOGEI, September 16th - 19th, 2019, Parma, Italy. In Abstract book, 583.

Di Curzio D., Rusi S. (2019) Stationary and non-stationary geostatistics to model 3-D hydraulic conductivity distribution: a case study in the southern Po river plain. Il tempo del pianeta Terra e il tempo dell'uomo: le geoscienze tra passato e futuro - Congresso Nazionale SIMP-SGI-SOGEI, September 16th - 19th, 2019, Parma, Italy. In Abstract book, 586.

Rusi S., **Di Curzio D.** (2019) Multidisciplinary approach to study the landfill leachate impact on groundwa-

ter hydrogeochemistry in aquitard and aquiclude. Groundwater Management and Governance coping with Water Scarcity - 46th Annual Congress of International Association of Hydrogeologists, September 22nd - 27th, 2019, Malaga, Spain. In Conference Proceedings, ID263.

Di Curzio D., Rusi S. (2019) Modeling the 3-D hydraulic conductivity distribution in the southern Po river plain by stationary and non-stationary geostatistics. Groundwater Management and Governance coping with Water Scarcity - 46th Annual Congress of International Association of Hydrogeologists, September 22nd - 27th, 2019, Malaga, Spain. In Conference Proceedings, ID299.

Di Curzio D., Castrignanò, A. Rusi S. (2019) Geostatistical Techniques to Obtain the 3-D Hydraulic Conductivity Distribution Model in the Southern Po River Plain. 7th International Symposium on Geotechnical Safety and Risk (ISGSR), December 11th - 13th, 2019, Taipei, Taiwan. In Conference Proceedings, 291-296.

Vessia G., **Di Curzio D.** (2020) Multivariate geostatistical methods to conceive 3D lithotechnical subsoil models for urban planning activities. Baltic Sea Geotechnical Conference (BSGC), January 18th - 20th, 2021, Helsinki, Finland. (Full paper revised).

Boncio P., **Di Curzio D.**, Savini L., Iezzi F., Vessia G. (2020) Indicator Kriging method for liquefaction instability maps. 13th International Conference on Structural Safety & Reliability (ICOSSAR) 2021, June 21st - 25th, 2021, Shanghai, China. (Abstract sent)

Vessia G., **Di Curzio D.**, Chiaudani A., Rusi S. (2020) Multivariate geostatistics to build maps of regional rainfall thresholds for shallow landslides initiation. 13th International Conference on Structural Safety & Reliability (ICOSSAR) 2021, June 21st - 25th, 2021, Shanghai, China. (Abstract sent)

Member/enrolment of/at Professional and Scientific Association/Committee

Member of the **International Association of Hydrogeologists (IAH)**

Member of the **International Association of Engineering Geology and Environment (IAEG)**

Member of the board of the **Early Career Hydrogeology Network, Italian Chapter (ECHN Italy)**

Signature

