



**Dr. V. Scisciani, PhD**  
*Curriculum Vitae (short version)*  
March 2026

**PERSONAL DETAILS:**

FULL NAME: Vittorio Scisciani  
DATA OF BIRTH: 13th January 1969  
PLACE OF BIRTH: Macerata, Italy  
NATIONALITY: Italian  
CURRENT POSITION: Associate Professor

OFFICE ADDRESS: INGEO - Dipartimento di Ingegneria e Geologia  
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[https://www.researchgate.net/profile/Vittorio\\_Scisciani](https://www.researchgate.net/profile/Vittorio_Scisciani);  
<http://it.linkedin.com/pub/scisciani-vittorio/45/ab9/62b>  
[https://scholar.google.com/citations?user=EmDCN\\_YAAAAJ&hl=en](https://scholar.google.com/citations?user=EmDCN_YAAAAJ&hl=en)

## **MAIN FIELDS OF INTEREST**

Structural Geology, Geological surveys; Geophysics; Seismotectonics; Active Tectonics; Marine geology; Energy transition; Geological storage of fluids, CCS, Decarbonisation

## **EDUCATION AND ACADEMIC POSITIONS**

1994: Laurea degree (B.Sc. + M.Sc.) with honours in Geological Sciences at the University of Camerino, Italy;

1998: ERASMUS Fellow at the Department of Earth Sciences of the University of Leeds (U.K.);

1999: Ph.D in Structural Geology and Tectonics at the University of Camerino, Italy;

1999-2000: Post-doc Fellow at the Department of Earth Sciences of the G. D'Annunzio" University "of Chieti, Italy;

2000: Post-doctoral Fellow in "Seismic reflection profile interpretation and Structural Geology" at the Department of Earth Sciences of the "G. D'Annunzio" University of Chieti, Italy;

2001-2006: Assistant Professor of Structural Geology (SSD GEO/03) at the "G. D'Annunzio" University of Chieti-Pescara, Italy, Chieti, Italy;

2006-2020: Associate Professor of Structural Geology (GSD 04/GEOS-02/C) at the "G. D'Annunzio" University of Chieti-Pescara, Italy (present-day position);

## **MAIN RESEARCH TOPICS**

### **i) Regional Geology and Tectonics**

Definition of the geological-structural setting and reconstruction of the tectono-stratigraphic evolution of the Mediterranean fold-and thrust belts, fore-deep basins and extensional basins (also with salt-tectonics) based on multidisciplinary and integrated approach (geological and structural field data, seismic reflection profile interpretation and well-log data analysis); reconstruction of the deep geological-structural setting of sedimentary basins/chains by seismic reflection profile interpretation with realization of regional balanced and restored geological cross-sections; validation of the reconstructed evolution by forward modeling and back-stripping techniques.

### **ii) Seismic interpretation and Marine Geology**

Collection/preparation of geological/geophysical data for their subsequent integration with seismic data. 2 and 3D seismic interpretation of onshore/offshore data for regional studies and for evaluation of lead/prospect fairways and exploration targets; well-to-seismic tie; realization of regional horizons/intervals time/depth maps and of Top reservoir to depth

maps. Definition of play concepts and exploration themes in thrust and fold belts, extensional basins, foredeep basins, salt basins, deep-water fold-and thrust belts, foreland area affected by inversion tectonics. Back-restoration and structural validation of seismic interpretation and geological cross-sections at various scales by specific software (e.g., Move- Midland Valley). Reconstruction of the basin history and thermal modeling for the study of hydrocarbon generation and migration. Field mapping for exploration screening and seismic survey planning. Subsurface Marine Geology

### iii) Structural characterization of fractured reservoirs

Fault and fractures network analysis in carbonates and sandstones. Regional structural interpretation from digital image analysis (remote sensing). Field studies of the nucleation and growth mechanisms in multiscale fault zones developed in different types of tectonic contexts. Study of the fault zones characteristics (spatial, geometrical, kinematic and petrophysical properties) and of the main factors that control their formation and spatial-temporal evolution; characterization, geomechanics and 3D modeling of fractured reservoirs; control exerted by faults and fractures on fluid circulation, and the application on geological storage of fluids (water, CO<sub>2</sub>, H<sub>2</sub>) in subsurface.

### iv) Active Tectonics and Earthquake Geology

study of the relationship between earthquakes, active tectonics and seismogenic faults based on a multidisciplinary approach; field map of recent seismogenic faults; subsurface data study of active faults with 2- and 3D fault-slip evaluation.

## **RESEARCH AND PROFESSIONAL EXPERIENCE**

From 1996 to 1998: participant in the national project of research in structural geology and tectonics founded by CNR (GNDT) and COFIN, in co-operation with other universities and government institutions;

From 1998 to 2005: participant to the TFM (TaskForceMajella) for the project "3D study of the Majella Mountain (Central Italy): an analogue of a faulted and fractured hydrocarbon reservoir".

From 1999 to 2000: contractor founded by the "G. d'Annunzio" University of Chieti-Pescara for the geological mapping and structural analysis of key areas in the Central Apennines (Italy);

July 2000: contractor for the geological mapping of the Sheet 361 "Chieti" of the Geological map of Italy scale 1:50.000 - ISPRA (Italian Geological survey);

From 2000 to 2001: Research Project "Geological and structural field mapping, meso-structural analysis, 3D modelling, and seismic interpretation of the Majella Mountain (Central Italy)";

From 2001 to 2002: Coordinator of a Research Program on the study of "The Mesozoic extensional tectonics in the Adriatic foreland and the subsequent Neogene inversion tectonics" founded by the CNR (Italian National Research Council);

From 2003 to 2008: participant to national project of research in structural geology and tectonics and seismic interpretation founded by MIUR (Italian Ministry of Education, Universities and Research) in co-operation with other government institutions;

From 2004 to 2007: contractor for the geological mapping, the study of subsurface geology and of hydrocarbon geology of the Sheet 349 "Gran Sasso d'Italia" and Sheet 339 "Teramo" of the Geological map of Italy scale 1:50.000 - ISPRA (Italian Geological survey)/ Regione Abruzzo/ Ud'A agreement;

From 2012 to 2018: cooperation with Spectrum Geo-Limited for the "Interpretation of reprocessed seismic reflection profiles in the Central and Southern Adriatic (Italy)" and "Basin analysis and thermal modeling of the Central and Southern Adriatic (Italy)".

From 2021 to Present: Geological stoRagE of hydrogEn and carboN: clean and efficient monitoring methods – Research Unit Head, PRIN PNRR Project”;

From 2020-2025: Subsurface geology and field structural geology of the sheet 390 “Capracotta” of the Geological map of Italy scale 1:50.000 - ISPRA (Italian Geological survey)/ Regione Abruzzo/ INGEO Ud'A agreement

From 2020-Present: Subsurface geology, field structural geology and field geology mapping of the sheet 370 “Guardiagrele” of the Geological map of Italy scale 1:50.000 - ISPRA (Italian Geological survey)/ Regione Abruzzo/ INGEO Ud'A agreement

## **PUBLICATIONS**

From 1995 to Present: some n. 60 papers with topics in geology, geophysics and tectonics have been published in national and international peer-reviewed journal and books;

From 1994 to Present: some n. 143 abstracts have been presented at both national and international meetings and some of those have published in conference books and proceedings;

Scopus h-index: 20 (total citations: 1284)

Google Scholar h-index: 25 (total citations: 1923)

ResearchGate: h-index: 25; RIS 1,303; citations: 1,854.

Last 10 years relevant publications:

De Luca, M., Mackay, E.J., Good, T.R., Scisciani, V., MacBeth, C., Patruno, S., and Sutcliffe, J. (2025) - Regional pressure response to large-scale carbon storage in the bunter sandstone formation, Silverpit Basin (Southern North Sea, UK). *International Journal of Greenhouse Gas Control*, DOI: 10.1016/j.ijggc.2025.104530

De Luca, M., Cafarelli, A., Mancinelli, P., Scisciani, V. (2025) - Revisiting the Tremiti Islands structural high in the central Adriatic Sea (Italy), new insights from gravity anomaly modelling; *Tectonophysics*, 2025, 912, 230860

Patruno, S., Green, A., Corcoran, J., Caldarella, D., Scisciani, V., Przywara, M. (2024) - A conceptual CO<sub>2</sub> fill-and-spill mega-fairway in the UK Southern North Sea: A new approach to identify and optimise large-scale underground carbon storage (CCS) - *International Journal of Greenhouse Gas Control*, 2024, 133, 104092

Potere, D., Iezzi, G., Scisciani, V., Tangari, A.C., Nazzari, M. (2023) - Provenance and deposition of a lithified volcanic-rich layer (VRL-5.5) at 5.5 Ma from Central Apennines (Italy). *Scientific Report*, 13, 6880. <https://doi.org/10.1038/s41598-023-33256-2>

Potere, D., Scisciani, V., Piochi, M., Pierantoni, P.P., Mormone, A., Nazzari, M., Scarlato, P., Iezzi, G. (2022) - The volcanic-rich layer of the “Camporotondo (Marche, Italy)” section: Petrography and sedimentation of an unknown distal Messinian eruption. *Minerals* 12, 893. <https://doi.org/10.3390/min12070893>

Mancinelli, P., Scisciani, V., Pauselli, C., Speranza, F., Vasiljević, I. (2022) - Back-arc underplating provided crustal accretion affecting topography and sedimentation in the Adria microplate. *Marine and Petroleum Geology*, 136, 105470

Scisciani, V., Patruno, S., D'intino, N., Esestime, P. (2022) - Paleozoic basin reactivation and inversion of the underexplored Northern North Sea platforms: a cross-border approach. *Geological Society Special Publication*, 494(1), 301–331

Mancinelli, P., Scisciani, V., Patruno, S., Minelli, G. (2022) - Gravity modeling reveals a Messinian foredeep depocenter beneath the intermontane Fucino Basin (Central Apennines), *Tectonophysics*, 821, 229144

Calamita, F., Pace, P., Scisciani, V., Properzi, F., Francioni, M. (2021) - Dinaric up-thrusts in the Pliocene evolution of the Central Apennines thrust belt of Italy: The Montagna dei Fiori structure. *Geological Magazine*, 2021

Patruno, Scisciani, V., (2021) Testing normal fault growth models by seismic stratigraphic architecture: The case of the Pliocene-Quaternary Fucino Basin (Central Apennines, Italy), *Basin Research* 33(3), 2018-2156

Mancinelli P., and Scisciani, V. (2020) - Seismic velocity-depth relation in a siliciclastic turbiditic foreland basin: A case study from the Central Adriatic Sea. *Marine and Petroleum Geology*, 120, art. N. 104554; 10.1016/j.marpetgeo.2020.104554

Patruno, S., Scisciani, V., Helland-Hansen, W., D'intino, N., Reid, W. & Pellegrini, C., (2020) - Upslope-climbing shelf-edge clinoforms and the stepwise evolution of the northern European glaciation (lower Pleistocene Eridanos Delta system, U.K. North Sea): when sediment supply overwhelms accommodation. *Basin Research* 32, 224–239. doi:10.1111/bre.12379

Tavarnelli, E., Scisciani, V., Patruno, S., Calamita, F., Pace, P. and Iacopini, D. (2019) - The role of structural 603 inheritance in the evolution of fold-and-thrust belts: Insights from the Umbria-Marche Apennines, Italy, 604 *Geological Society of America Special Paper* 542, 191–211, doi: [https://doi.org/10.1130/2019.2542\(10\)](https://doi.org/10.1130/2019.2542(10)).

Scisciani, V., Patruno, S., Tavarnelli, E., Calamita, F., Pace, P. and Iacopini, D. (2019). Multi-phase reactivations and inversions of Paleozoic-Mesozoic extensional basins during the Wilson Cycle: case studies from the North Sea (UK) and Northern Apennines (Italy). *Geological Society, London, Special Publications* 470(1), 205-243; doi: <https://doi.org/10.1144/SP470-2017-232>.

Scisciani, V., D'intino, N., & Esestime p. (2018) - Multi-Reactivated Extensional Domains: A Case Study from the Utsira High-Stord Basin (North Sea - Norway). *EAGE-2018: European Association of Geoscientists & Engineers*, vol 2018, pp 1-5; <https://doi.org/10.3997/2214-4609.201801517>

Scisciani, V. and Esestime, P. 2017. The Triassic Evaporites in the Evolution of the Adriatic Basin. *Permo-Triassic Salt Provinces of Europe, North Africa and the Atlantic Margins*, Chapter 23 pp. 499-516. DOI:579 10.1016/B978-0-12-809417-4.00024-0

Pace, P., Scisciani, V., Calamita, F., Butler, R.W.H., Iacopini, D., Esestime, P. and Hodgson, N., (2016). Inversion structures in a foreland domain: seismic examples from the Italian Adriatic Sea. *Interpretation*, 3(4), SAA161-SAA176, doi:10.1190/INT-2015-0013.1

## **CONGRESSES/WORKSHOPS: PARTICIPATION and ORGANIZATION**

Since 1994: participation in some n. 120 national and international congresses/workshops with about 60 oral/poster presentations and personal communications.

Congress/Whorkshops Chairman and Organization:

- Convener of Sesssion S44 “New concepts and applications in exploration, sustainable exploitation, storage and modelling of georesources” - SGI-SIMP Congress: Geology for a sustainable management of our Planet, 4th September, Bari (Italy);

- Field Trip Leader of “Geology and Tectonics of the Central Apennines Regional” (27 August -03 September 2016) – International workshop in Seismicity of the Apennine;
- Convener of TS11.3 Session “Applied seismic data analysis and interpretation in structural geology and tectonics: state-of-the-art and new prospective” – EGU 2020 General Assembly (4-8 May 2020).
- Field Trip Leader of “Geology and Tectonics of the Central Apennines Regional” (7-12 September 2013) – International workshop in Seismicity of the Apennines
- Convener of the Session G3 in the Geolitalia 2009 (9-11 September 2009, Rimini);
- Field Trip Leader of the Central Apennines excursion (the control of the Mesozoic paleomargin architecture on the Pliocene orogenic system of the central Apennines) of the 32<sup>nd</sup> International Geological Congress-SGI2004;
- Organisation of the International Congress FIST-Geolitaly (September 2001, Chieti -Italy);

## **REVIEWER FOR ISI JOURNALS**

Referee of the following review: Basin Research, Geological Society of America, Tectonophysics, Quaternary International, Journal of Geodynamics, Journal of Geophysical Research, Journal of Structural Geology, Tectonophysics, Geology, Energies, Geosciences, Geophysical Journal International, Italian Journal of Geoscience, Marine and Petroleum Geology, Marine Geology, Journal of South American Earth Sciences, Annals of Geophysics, Italian Journal of Geosciences, Il Quaternario, Bollettino di Geofisica Teorica ed Applicata, etc...

## **PROFESSIONAL AFFILIATIONS**

EUG	European Union of Geosciences
EGS	European Geophysical Society
IASTG	International Association of Structural and Tectonic Geologists
SGI	Società Geologica Italiana (Italy)
GIGS	Gruppo Informale di Geologia Strutturale (Italy)

## **TEACHING EXPERIENCE**

Vittorio Sciscianni acquired a decennial teaching experience in the Structural Geology and Geophysics disciplines. His educational academic employments consist of frontal lessons, field and classroom laboratory, supervisor tutor activities in “Structural Geology”, “Geology II”, “Laboratory of Geology II”, “Geomechanics”, “Field Geology II”, “Seismic interpretation”, “Laboratory of seismic interpretation” and in “Decarbonisation Geology”. Moreover, he was and has been employing as Supervisor in B.Sc., M.sc. and Ph.D. Thesis.

2001 to Present: employed as Supervisor in B.Sc. thesis (26 students), M.Sc. thesis (59 students) and Ph.D. thesis (6 candidates)

1998-2000: Part-time Teaching support in “Geology II” and in “Laboratory of Geology II” of the Course in Earth Sciences at the University “G. D’Annunzio” of Chieti;

2004-2010: Assistant Professor in “Structural Geology and Laboratory” of the Course in “Tecniche dell’ambiente e del Territorio” at the University “G. D’Annunzio” of Chieti-Pescara;

2009-2011: Assistant Professor in “Geomechanics” of the Course in Earth Sciences at the University “G. D’Annunzio” of Chieti-Pescara;

2001-2011: Assistant Professor in “Laboratory of seismic interpretation” of the Course in Earth Sciences at the University “G. D’Annunzio” of Chieti-Pescara;

2001-2006: Assistant Professor in “Seismic interpretation” and “Geomechanics” Master Course in Earth and Planetary Sciences at the University at the University “G. D’Annunzio” of Chieti-Pescara;

2006-2020: Professor in “Field Geology II” and “Geological section Lab” - Course in Earth Sciences at the University “G. D’Annunzio” of Chieti-Pescara;

2016-2022: Associate Professor in “Petroleum Geology” - Master Course in Earth Sciences and Technologies at the University at the University “G. D’Annunzio” of Chieti-Pescara;

2025: Professor in “Geographic Information Systems” - Course in Earth Sciences at the University “G. D’Annunzio” of Chieti-Pescara

2001-Present: Associate Professor in “Seismic Interpretation” – Master Course in Earth Sciences and Technologies and Earth and Planetary Sciences at the University “G. D’Annunzio” of Chieti-Pescara

2022-Present: Associate Professor in “Decarbonisation Geology” - Master Course in Earth Sciences and Technologies and Earth and Planetary Sciences at the University “G. D’Annunzio” of Chieti-Pescara;