Ivan Sunyé Puchol

Curriculum Vitae

Lecturer and Researcher in Volcanology | Sapienza University of Rome
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Updated October 2026

Professional Profile

Volcanologist and tephrochronologist specialising in the reconstruction of explosive eruptive histories through proximal stratigraphy, sedimentary archives, geochemical fingerprinting and geochronology. Lecturer at Sapienza University of Rome and principal investigator of the ÇoraDrill project. Research experience across Central America, Mexico, Anatolia and Patagonia, with particular expertise in caldera volcanism, tephrochronology, sediment-core records, volcanic hazards and volcano–climate interactions. Experienced in undergraduate, graduate and field-based teaching in volcanology, volcanic stratigraphy and tephrochronology, as well as public communication of volcanic hazards.

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Professional Experience

2025–2028 Lecturer (RTD-A, equivalent to fixed-term Assistant Professor) and principal investigator of the ÇoraDrill project, Department of Earth Sciences, Sapienza University of Rome, Italy.

2024–2025 Postdoctoral researcher under the ADD-Sapiexcellence programme and principal investigator (PI) of the BlaCorTephra project, Department of Earth Sciences, Sapienza University of Rome, Italy.

2021–2024 Marie Skłodowska-Curie Action (MSCA) Individual Fellowship (IF), Department of Earth Sciences, Sapienza University of Rome, Italy. PI of the PÜSKÜRÜM project on the late Pleistocene to Holocene explosive volcanic history and hazards of Central Anatolia.

2019–2021 Postdoctoral Research Assistant in Tephrochronology, University of Oxford, United Kingdom. Researcher on the MexiDrill project, developing a 350,000-year record of climate and environmental change in tropical North America. Principal investigator: Professor Victoria Smith, School of Archaeology.

2018 Geologist, Observatory of the Ministry of Environment and Natural Resources (MARN), of El Salvador. Responsibilities included volcanic and earthquake geology, volcano monitoring, tephrostratigraphy, hazard assessment and science communication.

Education and Research Training

Degrees

2014–2018 PhD in Earth Science (Volcanic Geology), Institute of Geoscience (IGEO) - Querétaro, National Autonomous University of Mexico, (UNAM). Dissertation: “Origin and volcanic history of Ilopango caldera, El Salvador (Central America)”. With distinction. Supervisor: Dr. Gerardo Aguirre-Díaz.

2012–2014 MSc in Earth Science (Active Tectonics) IGEO - Querétaro, UNAM - Mexico. Dissertation: “Neotectonic study on the Temascalcingo volcano and paleoseismology of San Mateo fault (Acambay graben, Mexico)”. With distinction. Supervisors: Drs. Pierre Lacan and Maria Ortuño.

2005–2010 BSc in Geology, Faculty of Earth Sciences, University of Barcelona (UB), Catalonia, Spain. Dissertation: Geomorphologic study on the Lençois Maranhenses: Aeolian deposits at the NE coast of Brazil as indicators of climate change. Supervisors: Drs. Jordi Serra and Luis Parente.

Research stages

2017 OSU Argon Geochronology Lab, College of Earth, Ocean and Atmospheric Science, Oregon State University, (USA). Supervisors: Drs. Daniel Miggins and Anthony Koppers. Project: Dating the explosive eruptions of Ilopango caldera by 40Ar/39Ar.

2013 Institute of Earth Science (ISTerre), University Joseph Fourier, Grenoble, France. Supervisor: Dr. Laurence Audin. Project: Neotectonic analysis of the San Mateo fault and estimation of its paleo-earthquakes ages by Radiocarbon dating.

2009–2010 Marine Science Institute (LABOMAR-UFC), Federal University of Ceará, Fortaleza, (Brazil). Supervisor: Dr. Luis Parente. Project: Geomorphologic study of the Lençois Maranhenses: Aeolian deposits at the NE of Brazil as indicators of climate changes.

Research Interests and Expertise

Research themes Research themes include tephrochronology, physical volcanology, caldera evolution, volcano–tectonic interactions, neotectonics, palaeoseismology, volcanic hazards and the effects of eruptions on past societies, climate and the environment.

Field expertise Field expertise includes geological mapping, tephrostratigraphy, sediment-core logging, sampling, sedimentology, geomorphology, petrology, structural geology and reconstruction of eruptive histories, with field experience across volcanic regions in Central America, Mexico, the United States, Anatolia, Spain (Canary Islands and Pyrenees), Patagonia and Italy, including Mt. Etna, the Aeolian Islands, Campi Flegrei, Vesuvius, the Colli Albani volcanic district, the Vulsini volcanic district and the Sabatini volcanic district.

Analytical expertise Analytical expertise includes tephra and mineral separation, sample preparation and geochemical characterisation of volcanic glass and crystals by EMP-WDS and LA-ICP-MS; sample preparation and data interpretation for ^40Ar/^39Ar and U–Th–Pb geochronology; construction of radiocarbon-based age models; and major- and trace-element geochemical fingerprinting and statistical correlation of tephra deposits.

Research Funding and Projects

Projects as Principal Investigator

Competitive funding secured as principal investigator €537,473.28

2025 ÇoraDrill project. Reconstructing the eruptive history of Erciyes volcano and the palaeoclimate of Central Anatolia by drilling sediment cores within Çora maar, Turkey. Young Researchers MSCA 2024 call, PNRR-MUR. Principal investigator: Ivan Sunyé Puchol. Funding: €300,000.

2024 BlaCorTephra project. Correlating Central Anatolian tephras to synchronise the Black Sea sedimentary record and evaluate regional volcanic hazards. ADD-Sapiexcellence 2024, protocol 0129641. Principal investigator: Ivan Sunyé Puchol. Funding: €50,000.

2022 YANARDAG project. Petrogenetic study of the Dikkartın, Karagüllü and Perikartın pyroclastic deposits from Holocene eruptions of Erciyes volcano, Central Anatolia. Avvio alla Ricerca Sapienza, AR22218166630B63. Principal investigator: Ivan Sunyé Puchol. Funding: €4,000.

2021–2024 PÜSKÜRÜM project. Characterisation of late Pleistocene pyroclastic deposits in Central Anatolia to reconstruct recent explosive volcanic history, synchronise sedimentary records and improve volcanic-hazard assessment in Turkey. European Union Horizon 2020 Marie Skłodowska-Curie Individual Fellowship, grant 101024337. Principal investigator: Ivan Sunyé Puchol. Funding: €183,473.28.

Participation in Collaborative Research Projects

2024 Member of the scientific team for the Fire and Ice project during the Schmidt Ocean Institute expedition in the Sea of Chile aboard R/V Falkor (too). Research cruise FKt240902, Cascading Offshore Depositional Impacts from Large Explosive Eruptions. Principal investigator: Professor Sebastian Watt.

2024 TURVO project: From past eruptions to future hazards. An interdisciplinary volcanological investigation of central TURkish Anatolian active Volcanoes (PID2023-147255NB-I00). PROYECTOS DE GENERACIÓN DE CONOCIMIENTO CONVOCATORIA 2023, Agencia Estatal de Investigación (AEI), Ministerio de Ciencia, Innovación y Universidades, Gobierno de España. PI: Dr. Xavier Bolós (€350,000).

2023 PROVES: an integrated PetRO-Volcanological monitoring approach applied to Mt. Etna and Stromboli, a PRIN project (PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE, – Bando 2022 Prot. 2022N4FBAA). Leader: Prof. Matteo Masotta (€363,092).

2022 Building the CIVIS Geochronology Network (CGN): CIVIS European Civic University – Hub 1 on Climate, Environment and Energy (Co-founded by the Erasmus + Programme of the European Union). Funding to create an international school in Geochronology (€25,855), Leader: Dr. Thibaut Deviese (University Aix-Marseille, France). Type of Participation: teacher by the University of Rome – La Sapienza (CIVIS member)

2022 Tephrostratigraphic study of La Garrotxa volcanic field by field geology work, drilling and sediment core analysis at the CORELAB of the UB

2019 MexiDrill project: Developing a 350,000-year record of climate and environmental change in tropical North America. Collaborative Research: National Science Foundation, USA & Natural Environment Research Council grant – NSFGEONERC ($640,000 & $299,000; 2018–2021; NE/S009035/1). USA leader J. Werne (University of Pittsburgh) & UK leader V. Smith. Participation type: Postdoctoral researcher.

2018 RIESCA: Regional Training Project Applied to Risk scenarios with surveillance and monitoring of Volcanic, Seismic and Hydrogeological phenomena in Central America. Italian Cooperation DGCS-MAECI/AICS, CRSID2015000276, €350,000, 2016–2018, leader: Giuseppe Giunta. Type of participation: Researcher and geologist from MARN (El Salvador).

2015 Natural hazards in Mexico by super-eruptions originated in Central America: the case of the Ilopango caldera, El Salvador, and its influence on the decline of the Mayan Empire. CONACYT, Project 240447, leader: Gerardo de Jesus Aguirre Díaz, UNAM, 03/10/2015-03/10/2018, €95,000. Type of participation: PhD student.

2015 Pleistocene-Holocene explosive volcanism in the Acambay graben: assessment of volcanic hazard in the central sector of the Mexican volcanic belt. National Autonomous University of Mexico,

DGAPA-PAPIIT IN-104615, leader: Gerardo Aguirre Díaz, UNAM, 01/01/2015-12/31/2017, €9,000. Type of participation: PhD student.

2012 Characterization of seismogenic faults in the central part of the Trans-Mexican Volcanic Belt (TVTM): implications for seismic hazard and slope instability. CONACYT, Project 129010, leader: Ramón Zúñiga Davila-Madrid, UNAM, 03/10/2011-03/10/2014, €95,000, Type of participation: MSc student.

2011 National plan project of the Ministry of Science and Innovation "Geosciences in Iberia: integrated studies surveying and 4D evolution (Topo-Iberia), Ref CSD2006-00041". Geodynamics and Geophysics department, Geology faculty, Universitat de Barcelona. Researcher: Dr. Jaume Pous Fàbregas.

2010 MAGBET research Project (CGL2006-10166) and PIER-CO2 (CGL2009-07604) "Magnetotelluric method in French and Spanish Pyrenees". Geodynamics and Geophysics department, Geology faculty, Universitat de Barcelona. Researcher: Dr. Juanjo Ledo Hernandez.

2009 "Characterization of Aeolian deposits from NE of Brazil as a change climate indicator and their environmental implications – Lençois Maranhenses" Executed by Coastal Dynamics department of the Instituto de Ciências do Mar – LABOMAR – UFC (Universidade Federal do Ceará) funded by CNPq – National Council for Scientific and technological development. PI: Dr. Luis Parente.

2009 Event: Integration of new technologies in Paleosismology: Characterization of faults that can generate earthquakes and tsunamis on the southern Iberia. Initiative approved by the Ministry of research and Science in the GL2004-21666-E program. Executed by Geodynamics and Geofísics department of the Universitat de Barcelona. Researcher: Dr. Gia Kazaradze

Fellowships Scholarships and Mobility Grants

2018 Grant from "PAEP-CPE Support Module for postgraduate UNAM students" to participate at the conference "Cities on Volcanoes-10", in Naples, Italy, September 2018.

2017 INQUA-Grant to participate at "IAVCEI 2017 Workshop: Best practices in Tephra Collection, Analysis and Reporting: Leading Toward Better Tephra Databases" in Portland, Oregon, (USA). 19 August 2017.

2017 Grant from National Council for Science and Technology of Mexico (CONACyT) to do an internship in the OSU Argon Geochronology Lab of the College of Earth, Ocean and Atmospheric Science of the Oregon State University (OSU).

2017 Grant from "PAEP-CPE Support Module for postgraduate UNAM students" to participate at the conference "XIII Geological Conference of Central America: Centennial of the eruption of the volcano of San Salvador", 5–9 June 2017 (San Salvador, El Salvador)

2016 UNESCO grant to participate at the "Advanced School on Physics of Volcanoes, at International Centre of Theoretical Physics (ICTP), Trieste, Italy (17–21 October 2016).

2015 Grant "PAEP-CPE Support Module to postgraduate UNAM students" to participate at the conference of "XII Geological Conference of Central America" in Managua (Nicaragua), 17–19 November 2015.

2014–2018 PhD Scholarship: Postgraduate program support of CONACyT Mexico.

2013 Grant "PAEP-CPE Support Module to postgraduate UNAM students" to participate at the conference of "4th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA-Days)", 9–14 October 2013, Aachen, Germany.

2013 Grant from CONACyT-Mexico to do an internship at the Institute of Earth Science (ISTerre) of Grenoble, France.

2012 Grant "PAEP-CPE Support Module to postgraduate UNAM students" to participate at the conference of "Mexican Geophysical Union Annual Meeting (RAUGM) 2012" 28 October – 2 November, Puerto Vallarta, Jalisco, Mexico.

2012–2014 Master Scholarship: Postgraduate program support of National Council for Science and Technology of Mexico (CONACyT).

2009 Erasmus Mundus Fellowship to carry out the Bachelor dissertation in LABOMAR-UFC, at the Federal University of Cearà, Fortaleza, Brazil.

Peer-Reviewed Publications

Published and In Press

Author note An asterisk identifies equal contribution where indicated in the published citation.

1. Kearney, R. J., **Sunyé-Puchol, I.,** & Özsoy-Ünal, R. (2026). Southwest Asia: A volcanic province hidden in plain sight. Past Global Changes Magazine, 34(2), 84–85. https://doi.org/10.22498/pages.34.2.84
2. Bolós, X., Oms, O., Rodríguez-Salgado, P., **Sunyé-Puchol, I.**, Miggins, D. P., Madurell-Malapeira, J., Sorbelli, L., Bibi, F., Blain, H. A., Přikryl, T., Jiménez-Moreno, G., Expósito, I., Burjachs, F., Villalaín, J. J., Carrancho, Á., Grandi, F., Linares-Martín, A., Moreno-Ribas, E., Agustí, J., Campeny, G., & Gómez de Soler, B. (2026). A high-resolution chronology and terrestrial ecosystem record of Early Pliocene Warmth onset in Europe from Camp dels Ninots, NE Iberia. Scientific Reports. https://doi.org/10.1038/s41598-026-68688-z
3. **Sunyé-Puchol, I.**, Bolós, X., Özsoy-Ünal, R., Akkaş, E., Muir, L., Tavazzani, L., Nazzari, M., Bachmann, O., Scarlato, P., & Mollo, S. (2026). The volcanic evolution and eruption dynamics of the youngest Cappadocian caldera-forming ignimbrite: the Upper Acıgöl Tuff, Central Anatolia (Turkey). Bulletin of Volcanology, 88(8), 93. https://doi.org/10.1007/s00445-026-02007-2
4. **Sunyé-Puchol, I.**, Bolós, X., Özsoy-Ünal, R., Smith, V. C., Tavazzani, L., Nazzari, M., Cullen, V., Bachmann, O., Scarlato, P., & Mollo, S. (2026). Volcanic glass geochemical fingerprints of the Black Sea tephra layers in the last ~60 kyr. Scientific Data, 13, 1027. https://doi.org/10.1038/s41597-026-07504-9
5. **Sunyé-Puchol, I.**, Özsoy-Ünal, R., Bolós, X., Smith, V., Akkas, E., Tavazzani, L., Aymerich, J., Nazzari M., Lacan, P., Cullen, V., Bachmann, O., Scarlato, P., and Mollo, S (2026). Reconstructing the Holocene explosive eruptive history of the Erciyes volcano (Turkey) using proximal and distal tephra records. Journal of Quaternary Science, 645–659. https://doi.org/10.1002/jqs.70070
6. Hodgetts, A.G.E., Watt, S.F.L., Smith, V.C., **Sunyé-Puchol, I.**, Mastin, L.G., Brown, E.T., Valero-Garcés, B., Stockhecke, M., Ortega-Guerrero, B., Caballero, M., Lozano-García, S., Arce, J.L., Werne, J.P., Fawcett, P.J., Noren, A.J., Shannon, K.B., (2025). A 400-k.y. perspective on arc volcanism: An exceptional explosive eruption record from Central Mexico. GSA Bull. 137, 5353–5380. https://doi.org/10.1130/B38401.1
7. Özsoy R*., **Sunyé-Puchol, I.**,* Akkas, E., Bolós, X., Tavazzani, L., Nazzari M., Bachmann, O., Scarlato, P., Miggins, D.P., and Mollo, S (2025). Reconstructing the volcanic history of the Ulukışla Caldera: A collapse structure within the Hasandağ Volcanic Complex, Central Anatolia (Turkey): Journal of Volcanology and Geothermal Research, v. 463, https://doi.org/10.1016/j.jvolgeores.2025.108345
8. Özsoy R., **Sunyé-Puchol, I.**,* Pedrazzi, D., Akkas, E., Costa, A., Massaro, S., Tavazzani, L., Nazzari M., Bachmann, O., Scarlato, P., Miggins, D.P., Kaya, S., and Mollo, S (2024). Reconstructing the Belbaşhanı Pumice Plinian eruption, Hasandağ Volcano, Turkey. Bull Volcanol 86, 61 (2024). https://doi.org/10.1007/s00445-024-01752-6
9. León-Loya, R., Lacan, P., Ortuño, M., Zúñiga, F.R., Štěpančíková, P., Stemberk, J., Hernández-Flores, A. P., Carrera-Hernández, J. J., **Sunyé-Puchol, I.**, Aguirre Díaz, G.J., and Audin, L. (2023) “Paleoseismology of a Major Crustal Seismogenic Source Near Mexico City: The Southern Border of the Acambay Graben”. TECTONICS, vol. 42, p. 1-19, https://doi.org/10.1029/2022TC007610
10. **Sunyé-Puchol, I.**, Hodgetts, A.G.E., Watt, S.F.L., Arce, J.L., Barfod, D.N., Mark, D.F., Sosa-Ceballos, G., Siebe, C., Dymock, R.C., Blaauw, M., Smith, V.C., 2022. Reconstructing the middle to late Pleistocene explosive eruption histories of Popocatépetl, Iztaccíhuatl and Tláloc-Telapón volcanoes in Central Mexico. J. Volcanol. Geotherm. Res. 107413. https://doi.org/10.1016/j.jvolgeores.2021.107413
11. Smith, V. C., Costa, A., Aguirre-Díaz, G., Pedrazzi, D., Scifo, A., Plunkett, G., Poret, M., Tournigand, P.Y., Miles, D., Dee, M., McConnell, J.R., **Sunyé-Puchol, I.**, Dávila Harris, P., Sigl., M., Pilcher, J.R., Chellman, N., Gutiérrez, E. (2020). The magnitude and impact of the 431 CE Tierra Blanca Joven eruption of Ilopango, El Salvador. Proceedings of the National Academy of Sciences (PNAS) https://doi.org/10.1073/pnas.2003008117
12. Pedrazzi, D., **Sunyé-Puchol, I.**, Aguirre - Díaz, G., Costa, A., Smith, V.C., Poret, M., Dávila-Harris, P., Miggins, D.P., Hernández, W., Gutiérrez, E., 2019. The Ilopango Tierra Blanca Joven (TBJ) eruption, El Salvador: Volcano-stratigraphy and physical characterization of the major Holocene event of Central America. Journal of Volcanology and Geothermal Research, (377, 81 – 102) https://doi.org/10.1016/j.jvolgeores.2019.03.006
13. **Sunyé-Puchol, I.**, Aguirre-Díaz, G.J., Pedrazzi, D., Dávila-Harris, P., Miggins, D.P., Costa, A., Ortega-Obregón, C., Lacan, P., Gutierrez, E., Hernández, W., 2019. The Ilopango caldera complex, El Salvador : Stratigraphic revision of the complete eruptive sequence and recurrence of large explosive eruptions. J. Volcanol. Geotherm. Res. 374, 100–119. https://doi.org/10.1016/j.jvolgeores.2019.02.011
14. **Sunyé-Puchol, I.**, Aguirre – Díaz, G. J., Dávila – Harris, P., Miggins, D. P., Pedrazzi, D., Costa, A., Ortega-Obregón, C., Lacan, P., Hernández W. and Gutiérrez, E., (2019). The Ilopango caldera complex, El Salvador:

Origin and early ignimbrite-forming eruptions of a graben/pull-apart caldera structure. Journal of Volcanology and Geothermal Research 371 (2019) 1–19. https://doi.org/10.1016/j.jvolgeores.2018.12.004

15. Pedrazzi, D., Aguirre-Díaz G. J., **Sunyé-Puchol, I.**, Becerril, L. and Miggins, D. P., (2018). Volcanic activity in the Acambay Graben: The San Mateo Eruption of Temascalcingo Volcano, Mexico. Journal of Volcanology and Geothermal Research. 366, 27–46. https://doi.org/10.1016/j.jvolgeores.2018.10.007
16. **Sunyé-Puchol, I.**, Lacan, P., Ortuño, M., Villamor, P., Audin, L., Zuñiga, F.R., Langridge, R.M., Aguirre-Díaz, G.J. and Lawton, T.F., (2015), The San Mateo fault: new paleoseismological evidence of active faulting in the Acambay graben, Mexico (in Spanish). Mexican Journal of Geological Sciences, v. 32, n. 3, p. 361-376. https://doi.org/10.5281/zenodo.5882473

Submitted

Aymerich, J., Petrelli, M., Ágreda-López, M., Boijseauneau-López, M. E., **Sunyé-Puchol, I.**, Mingari, L., Muir, L., Geyer, A., Tierz, P., & Bolós, X. (submitted). A new machine learning approach for interpretable tephra-source correlation: Introducing the Depth-Integrated Harmonic Score (DIHS). Geochemistry, Geophysics, Geosystems.

In Preparation

Özsoy-Ünal, R., Mollo, S., Bolós, X., Smith, V., Miggins, D. P., Barfod, D. N., Tavazzani, L., Nazzari, M., Bachmann, O., Scarlato, P., & **Sunyé-Puchol, I.** (in prep.). Reconstructing the caldera-forming ignimbrite eruption of Taşpınar, Hasandağ Volcanic Complex, Turkey. Bulletin of Volcanology.

Supervision and Mentoring

2026–2027 Supervisor of a Postdoctoral research assistant (Dr. Efe Akkas) within the ÇoraDrill project

2021–2025 Supervising the doctoral thesis of Rengin Özsoy, a Sapienza PhD student working on the PÜSKÜRÜM project. Title: Reconstructing the eruptive history of Ulukisla caldera: a collapse structure within the Hasandağ magmatic system, Central Anatolia, Turkey.

2022–2023 Co-Supervisor of Master Student Simge Kaya (Hacettepe University). Thesis title: Petrogenetic study of the Dikkartin, Karagüllü and Perikartin pyroclastic deposits, Holocene eruption/s of Erciyes volcano, Central Anatolia (Turkey).

2015–present Training and mentoring undergraduate and graduate students in geological mapping, sampling, stratigraphic logging and tephra correlation; sample preparation and analysis by EMP-WDS and LA-ICP-MS; U-Th-Pb, 40Ar/39Ar and radiocarbon geochronology; data reduction; scientific writing; and presentation of results.

Teaching Experience

2025–present Lecturer and field instructor in Volcanology for BSc and MSc students in Earth Sciences and Natural Sciences, Department of Earth Sciences, Sapienza University of Rome, Italy. Participation in field-based teaching on Italian volcanic systems.

2025–present Lecturer in tephrochronology for PhD students, Earth Sciences PhD Programme, Sapienza University of Rome. Course: Applications of tephrochronology to palaeoclimatology, geoarchaeology and volcanic hazards.

2025–present Lecturer in volcanic stratigraphy and tephrochronology, Olot–La Palma International Course in Volcanology, Spain.

2022 Lecturer in Volcanology and Geothermal Energy for undergraduate and master's students, Department of Earth Sciences, Sapienza University of Rome, Italy.

2022 Lecturer in tephrochronology for European master's and PhD students, Building the CIVIS Geochronology Network, Aix-Marseille University, France.

2015–2017 Lecturer in Geological Mapping and Stratigraphy, Multidisciplinary Teaching and Research Unit, Juriquilla campus, National Autonomous University of Mexico, Querétaro, Mexico.

Scientific Leadership and Academic Service

Institutional Responsibilities

2025–present Member of the Department Executive Committee, Department of Earth Sciences, Sapienza University of Rome, Italy.

2025–present Member of the Faculty Executive Committee, Faculty of Mathematics, Physics and Natural Sciences, Sapienza University of Rome, Italy.

2026 Member of the Evaluation Committee for a postdoctoral research fellowship, Department of Earth Sciences, Sapienza University of Rome, Italy.

2025 Member of the Evaluation Committee for a predoctoral research fellowship, Department of Earth Sciences, Sapienza University of Rome, Italy.

Scientific Review Panels and Editorial Experience

2024–2025 ILGE transnational access (TNA) and national open access (NOA) Scientific Review Panel (PNRR MEET project).

2023–2024 Member of the Proceedings Editors of the Mediterranean Geosciences Union Annual Meeting (MedGU-23), held in Istanbul, Turkey, on 26 to 30 November 2023.

2022–2023 European EXCITE TNA Network (Horizon 2020-INFRAIA, GA 101005611). Assisting the management team as an independent expert of the SRP, reviewing research proposals and assessing the scientific excellence of the projects.

2023 National Research, Development, and Innovation Office of Hungary (NRDI), expert external reviewer of the proposal entitled “Across the lithosphere: investigating the patterns of monogenetic volcanic fields using geoinformatics (GIS) and geostatistical methods”.

Journal Referee Experience

2026 Mediterranean Geosciences Reviews (MGR; Springer, 2.27 IF, Q2). Paper title: A New Record of the Santorini (Minoan) Eruption in Western Anatolia: Karagöl Lake Evidence

2025 Catena (Elsevier, 5.4 IF, Q1). Paper title: Tephrostratigraphic sequence and volcanic climate influences on the ecological systems of the Longgang volcanic field in China.

2025 Turkish Journal of Earth Sciences (TUBITAK, 1.1 IF, Q4). Paper title: A transition from strombolian to phreatomagmatic plio-quaternary volcanism in Dayet Lemsir maar (Aïn Témouchent massif, northwestern Oranie – Algeria)

2025 Journal of Quaternary Science (JQS of Wiley, 2.3 IF, Q1). Paper title: Fingerprinting volcanic products from glaciated terrains: the Mount Melbourne Volcanic Field (northern Victoria Land, Antarctica). Reviewer record

2024 Scientific Reports (Nature, 4.99 IF, Q1). Paper title: Magmatic evolution of the Kikai caldera revealed by zircon triple dating and its chemistry.

2024 Communications Earth & Environment (Nature, 7.9 IF, Q1 green). Paper title: Phasing and climatic impact of the ‘Millenium Eruption’ of Mt. Baekdu”.

2024 Natural Hazards and Earth System Sciences (EGU, 4.6 IF, Q1). Paper title: “Volcanic risk ranking and regional mapping of the Central Volcanic Zone of the Andes”.

2024 Journal of Volcanology and Geothermal Research (Elsevier, 2.9 IF, Q1-Q2). Paper title: “A distal record of the Middle Miocene silicic eruption of the Carpathian-Pannonian Region stored within the Livno-Tomislavgrad Basin, Dinaride Lake System: implications for tephrostratigraphy and emplacement of volcaniclastic deposits”.

2023 Tectonophysics (Elsevier, 3.66 IF, Q1). Paper title: "Tectonically controlled felsic tuff ring volcanism link to small-scale pull-apart basin: An example from a Jurassic backarc basin of western Patagonia Argentina".

2022 GeoHazards, an open Access Journal (OAJ) from MDPI. Paper title: Can we model lava flows faster than real time to assist on a first volcanic emergency response?

2022 Quaternary (4.3 IF, Q2), an OAJ from MDPI. Paper title: The 2022 Mw 6.1 Pasaman Barat, Indonesia Earthquake, revealed a new segment of active fault based on Teleseismic and Satellite Gravity Data

2022 Geosciences (4.8 IF, Q1), an OAJ from MDPI. Paper title: Active Triclinic Transtension in a Volcanic Arc. The case of study of the El Salvador Fault Zone in Central America. Reviewer record

2021 Earth-Sciences Reviews (Elsevier) (~10 IF, Q1). Review title: “Caldera-related bimodal LIP: A review of the ~2.5 Ga Dongargarh-Kotri Province, central India”.

2021 Lithos (Elsevier)(4.27 IF, Q1). Paper title: “Decoding multiple zoning patterns in clinopyroxene phenocrysts at Vulcano Island: A record of dynamic crystallization through interconnected reservoirs”.

2021 Journal of the Geological Society of London (2.7 IF, Q2), the oldest geological society in the world (1807). Paper title: The Popocatépetl Volcanic Complex: new geological map and constraints on periodic edifice construction and destruction Reviewer record

2020 Lithos (Elsevier, 4.27 IF, Q1). Paper title: Petrological and geochemical modelling of magmas erupted at Volcano Island in the period 54-8 ka: Quantitative constraints on the sub-volcanic architecture of the plumbing system.

2015 Quaternary and Geomorphology journal. Paper title: Recent vertical tectonic movements in the seismogenic zone of Acambay graben using geodetic methods, Mexico.

Awards and Distinctions

2025 Finalist, “Ilercavó al món”, Premis Perifèric 2024–2025, recognising professional and scientific trajectories with international projection from the Ilercavònia region (Spain).

2024 Best Paper Award Track 7: Geochemistry, Mineralogy, Petrology, Volcanology and Planetology, at the Mediterranean Geoscience Union conference (MedGU-24), November 2024, Barcelona, Catalonia, Spain.

2019 Graduated with honours PhD, Centre for Geoscience (CGEO), National Autonomous University of Mexico, (UNAM), Querétaro, Mexico.

2015 Graduated with honours MSc, Centre for Geoscience (CGEO), National Autonomous University of Mexico, (UNAM), Querétaro, Mexico.

Invited Talks and Seminars

2026 Invited seminar, PhD in Earth System and Global Changes – Seminar Cycle 2026, Department of Physics and Geology, University of Perugia, Italy. Talk: “Beyond eruptions: using tephra layers to reconstruct volcanic and paleoenvironmental histories”, 28 January 2026.

2026 Invited speaker, IAVCEI Tephra Hazard Modelling Commission, “Ash-vances in Tephra Hazard Modelling” webinar series. Talk: Towards a high-resolution reconstruction of the Erciyes volcano’s explosive eruptive history over the last ~100 ka (Central Anatolia, Turkey), 25 February 2026, online.

2023 Seminar at Geosciences Barcelona – CSIC: “Reconstructing volcanic histories by tephrostratigraphic studies on proximal pyroclastic deposits”, 9 January 2023 (in-person talk).

2023 Invited speaker, CCZVAH IAVCEI International Conference on Continental Collision Zone Volcanism and Associated Hazards. Proposed talk on Central Anatolian collision volcanism and the PÜSKÜRÜM project; unable to attend.

2022 VOCS Workshop: The coupling of Volcanic, climatic and sedimentary processes across the lifetime of Arc-Volcanic systems. Invited talk: Reconstructing volcanic histories by tephrostratigraphic studies on proximal deposits. Lecco, Italy, 11–14 October 2022.

2023 Invited seminar, Department of Earth Sciences, Sapienza University of Rome. “Applications of tephra layers as geochronological markers: case studies from Ilopango caldera, the Sierra Nevada volcanic range and the Central Anatolian Volcanic Province”, 22 March 2023, Rome, Italy.

2022 Info-day MSCA and CIVIS alliance, at Sapienza University of Rome. Talk title: “Hints and Tips from a Marie Sklodowska-Curie Fellow”, 25 May 2022, Rome (Italy).

2022 MIMIR Andino Workshop on modernising institutional research and innovation management in the Andean region and Latin America. Talk: “Career development of a Marie Skłodowska-Curie Postdoctoral Fellow and introduction to the PÜSKÜRÜM project”, 4 May 2022, Sapienza University of Rome.

2022 Masterclass at University of El Salvador (UES): Applications of tephra layers as geochronological markers. Case studies: Ilopango caldera (El Salvador), Sierra Nevada Volcanic Range (Mexico) and Central Anatolia Volcanic Province (Turkey)”, 11 June 2022, Master in Vulcanology and Volcanic hazards, UES (online talk).

2021 Seminar at Jeoloji Mühendisliği Bölümü: “Applications of tephra layers as geochronological markers. Case studies: Ilopango caldera (El Salvador), Sierra Nevada Volcanic Range (Mexico) and Central

Anatolia Volcanic Province (Turkey)", 21 October 2021, Hacettepe University, Ankara, Turkey (online).

2021 CEREGE - Séminaire équipe climat: "Applications of tephra layers as geochronological markers. Case studies: Ilopango caldera (El Salvador), Sierra Nevada Volcanic Range (Mexico) and Central Anatolia Volcanic Province (Turkey)", 8 October 2021, University Aix-Marseille, France (in-person talk).

2019 Oxford Volcano group: "Origin and Volcanic History of Ilopango caldera, El Salvador: a long-lived volcano that severely affected the Mayan civilization", 8 May 2019, Department of Earth Sciences, University of Oxford, UK (in-person talk).

2019 Doctoral training partnership at the University of Oxford, Department of Earth Sciences: "Personal pathway of an Early Career Research through the academy", 21 October 2019, Oxford, UK (in-person talk).

2019 CGEO Institutional Seminar: "MexiDrill Project: Developing a 350,000 years record of climate and environmental change in tropical North America", 12 April 2019, Centre for Geosciences, UNAM, Mexico (in-person talk)

2019 RLAHA Martin Aitken Seminar Series: Introduction to the MexiDrill project "Developing a three hundred fifty thousand years record of climate and environmental change in tropical North America", 21 November 2019, School of Archaeology, University of Oxford, UK.

Conference Contributions

2026

- **Sunyé-Puchol, I.** et al., Multi-vent Holocene explosive eruptions at Erciyes (Turkey): evidence for potential synchronous activity and implications for volcanic hazards. 6th PAGES VICS Workshop – Volcanic Impacts on Climate and Society: Past, Present and Future Perspectives, University of St Andrews, Scotland, 15–18 June 2026. Oral presentation.
- **Sunyé-Puchol, I.** Stratigraphy of the Çora maar sedimentary archive: implications for reconstructing the Erciyes eruptive history, paleoseismicity of the Sultansazlığı graben and paleoenvironment of Central Anatolia (Turkey) during the late Pleistocene–Holocene. AIQUA 2026 – Dinamiche del Quaternario: viaggio tra Geologia, Ambienti e Civiltà, Cagliari, Sardinia, Italy, 28–29 May 2026. Oral presentation.
- **Sunyé-Puchol, I.**, Özsoy-Ünal, R., Bolós, X., Smith, V.C., Akkaş, E., et al. Eruptive history of Holocene explosive activity at Erciyes volcano (Turkey) constrained by proximal and distal tephra records. EGU General Assembly 2026, Vienna, Austria & online, 3–8 May 2026, EGU26-11893. https://doi.org/10.5194/egusphere-egu26-11893
- Bolós, X., **Sunyé-Puchol, I.**, Özsoy-Ünal, R., Akkaş, E., Muir, L., Tavazzani, L., Nazzari, M., Bachmann, O., Scarlato, P., & Mollo, S. Upper Acıgöl Tuff: Eruption dynamics of the youngest Cappadocian ignimbrite. EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-13293. On-site poster presentation. https://doi.org/10.5194/egusphere-egu26-13293.

2025

- Meredew, K., Watt, S., Fernandez, R., Totten, R., Ferrante, G., Cañete, J., Hodgetts, A., Peña, P., Perales, C., **Sunyé-Puchol, I.**, et al. The offshore imprint of the 2009 eruption of Chaitén, Chile. **IAVCEI 2025** Scientific Assembly, Geneva (Switzerland), 29 June to 4 July 2025 (poster).
- Bolós, X., Oms O., Rodríguez-Salgado P., **Sunyé-Puchol I.**, et al. Multidisciplinary insights into the Camp dels Ninots maar-diatreme: New geochronology identify the onset of the terrestrial Early Pliocene Warmth. **IAVCEI 2025** Scientific Assembly, Geneva (Switzerland), 29 June to 4 July 2025 (poster).
- **Sunyé-Puchol, I.**, Bolós, X., Özsoy, R., Akkaş, E., Tavazzani L., Nazzari M., Bachmann O., Scarlato P., and Mollo, S. Small-scale phreatomagmatic eruptions as precursors of larger caldera-forming eruptions: Insights from Acigöl caldera, Central Anatolia (Turkey). **IAVCEI 2025** Scientific Assembly, Geneva (Switzerland), 29 June to 4 July 2025 (Oral talk).
- Özsoy, R., **Sunyé-Puchol, I.**, Bolós, X., Akkaş, E., Costa A., Tavazzani L., Miggins D., Nazzari M., Bachmann O., Scarlato P., and Mollo, S. Reconstructing the volcanic history of Ulukışla Caldera to improve the hazard assessment around the Hasandağ Volcanic Complex (Central Anatolia). **IAVCEI 2025** Scientific Assembly, Geneva (Switzerland), 29 June to 4 July 2025 (poster).
- **Sunyé-Puchol, I.**, Bolós, X., Smith, V., Özsoy, R., Akkaş, E., Tavazzani L., Costa A., Nazzari M., and Mollo, S. Correlating Black Sea (crypto-)tephras to reconstruct the recent explosive volcanic history of Central Anatolian volcanoes. **IAVCEI 2025** Scientific Assembly, Geneva (Switzerland), 29 June to 4 July 2025 (poster).

- **Sunyé-Puchol, I.**, Bolós, X., Özsoy, R., Monaco L., Petrelli M., Smith V., Giralt S., Costa A., Tavazzani L., Akkas E., Miggins D., and Mollo S. ÇoraDrill: Reconstructing the Eruptive History of Erciyes volcano and the paleoclimate of Central Anatolia by drilling sediment cores within the Çora Maar Crater (Turkey). Annual Meeting of **AIQUA** (Italian Association of Quaternary), 26–27 May 2025, Perugia (Italy)
- Özsoy, R., **Sunyé-Puchol, I.**, Bolós, X., Akkaş, E., Costa A., Tavazzani L., Miggins D., Nazzari M., Bachmann O., Scarlato P., and Mollo, S. New Findings from the Ulukışla Caldera in the Hasandağ Volcanic Complex (Central Anatolia). 77th Geological Congress of Turkey, 14–18 April 2025 (Ankara).

2024

- **Sunyé-Puchol, I.**, Özsoy, R., Bolós, X., Akkaş, E., Smith, V., Tavazzani L., Kearney, R., Lacan, P., Nazzari M., Miggins D., Mollo, S. Coupling proximal tephrostratigraphy with distal tephrochronological correlations to reconstruct volcanic histories: the case of the Holocene explosive eruptions of Erciyes volcano (Central Anatolia, Turkey). 4th Mediterranean Geoscience Union (**MedGU**) - 24, Barcelona (Spain), 25–28 November 2024 (Oral talk).
- Özsoy R., **Sunyé-Puchol I.**, Pedrazzi D., Akkaş E., Costa, A., Aydar E., Tavazzani L., Massaro, S., Nazzari M., Miggins D., Kaya S., and Mollo, S. New insights into the Belbaşhanı Pumice Plinian eruption: tephrostratigraphy, eruptive history and implications for volcanic hazards posed by Hasandağ (Central Anatolia). European Geoscience Union (**EGU**) General Assembly 2024, Vienna (Austria), 14–19 April 2024.
- **Sunyé-Puchol I.**, Bolós, X., Özsoy R., Akkaş E., Aydar E., Tavazzani L., Nazzari M., and Mollo, S. Assessing the potential of a new widespread ignimbrite-forming eruption in Cappadocia, Central Anatolia. European Geoscience Union (**EGU**) General Assembly 2024, Vienna (Austria), 14–19 April 2024.

2023

- Kaya S., **Sunyé-Puchol I.**, Özsoy R., Aydar E., Nazzari M. & Mollo S. Petrological investigation of Erciyes Stratovolcano Holocene Pyroclastics: Karagüllü, Perikartin and Dikkartin. EXCITE Conference 2023 (Granada, Spain), 8–10 November 2023.
- Özsoy R., **Sunyé-Puchol I.**, Pedrazzi D., Miggins D., Aydar E., Akkaş E., Tavazzani L. & Mollo S.: Reconstructing the recent eruptive history of Hasandağ volcano by tephrostratigraphic correlations along the Belbaşhanı Valley, Central Anatolia (Turkey). SIMP-SGI-SoGeI-AIV Geoscienze conference, Potenza (Italy), 19–21 September 2023 (oral)
- Kaya S., Özsoy R., **Sunyé-Puchol I.**, Aydar E., Nazzari M. & Mollo S. Reconstructing the Holocene volcanic history of Erciyes stratovolcano, Central Anatolia (Turkey): the Karagüllü, Perikartin and Dikkartin explosive eruptions. SIMP-SGI-SoGeI-AIV Geoscienze conference, Potenza (Italy), 19–21 September 2023 (oral)
- Özsoy, R., **Sunyé-Puchol, I.**, Aydar, E., Pedrazzi, D., Akkas, E., Mollo, S. (2023) Volcanic reconstruction of the Belbaşhanı Pumice eruption: a late Quaternary fallout deposit emitted in the Central Anatolian Volcanic Province (CAVP), Turkey, XXI – INQUA_2023, Sapienza University of Rome (Italy), 14–20 July 2023 (poster).
- Kaya S., Özsoy R., **Sunyé-Puchol I.**, Aydar E., Nazzari M. & Mollo, S. (2023) Characterization of three large holocene pyroclastic deposits from Mt Erciyes Stratovolcano (Central Anatolia, Turkey): Karagüllü, Perikartın and Dikkartın. XXI – INQUA_2023, Sapienza University of Rome (Italy), 14–20 July 2023 (poster).
- Hodgets et al. (2023) An accurate age-depth model for the long sedimentary record from Lake Chalco, Central Mexico: implications for volcanology, palaeoclimatology and palaeolimnology. XXI – INQUA_2023, Sapienza University of Rome (Italy), 14–20 July 2023 (Poster).
- **Sunyé-Puchol, I.**, Özsoy, R., Aydar, E., Miggins, D., Bolós, X. and Mollo, S. (2023) Reassessing the volcanic hazards in the Central Anatolian Volcanic Province (CAVP), Turkey: Could a new tuff cone eruption trigger a third collapse in Acigöl caldera and produce a large ignimbrite forming eruption? XXI – INQUA_2023, Sapienza University of Rome (Italy), 14–20 July 2023.
- Özsoy, R., **Sunyé-Puchol, I.**, Aydar, E., Pedrazzi, D., Akkas, E., Mollo, S. (2023) Characterization of Belbashani Pumice in Central Anatolian Volcanic Province (CAVP), Turkey. 75th Geologic Conference of Turkey, 10–14 April 2023, Ankara (Turkey).

2021

- **Sunyé-Puchol, I.**, Mollo, S., Smith, V. C., Higham, T., Aydar, E., Miggins, D.P., Özsoy, R. (2021). PÜSKÜRÜM project: Characterisation of late Pleistocene pyroclastic deposits in Central Anatolian Volcanic Province; reconstructing the recent explosive volcanic history and synchronising distal sedimentary records. 1ST MedGU-21, Istanbul (Turkey), 25–28 November 2021.

2020

- **Sunyé-Puchol, I.**, Aguirre – Díaz, G. J., Pedrazzi, D., Dávila – Harris, P., Miggins, D. P., Costa, A., Smith, V. C., Ortega-Obregón, C., Lacan, P., Gutiérrez, E., and Hernández W. (2020) The Explosive Volcanic History of Ilopango Caldera, El Salvador. VMSG-2020, Plymouth (UK), 6–9 January 2020.

2019

- Smith, V. C., Costa, A., Aguirre-Díaz, G., Pedrazzi, D., **Sunyé-Puchol, I.**, Scifo, A., Miles, D., Dee, M., Dávila-Harris, P., Hernández, W., Gutiérrez, E. "Assessing the impact of Tierra Blanca Joven eruption of Ilopango, El Salvador" INQUA-2019, Dublin (Ireland), 25–31 July 2019.

2018

- **Sunyé-Puchol, I.**, Aguirre – Díaz, G. J., Dávila – Harris, P., Miggins, D. P., Pedrazzi, D., Ortega-Obregón, C., Costa, A., Lacan, P., Smith, V. C., Hernández W. and Gutiérrez, E., (2018). Explosive Volcanic History of Ilopango Caldera, El Salvador: indispensable geologic data for future volcanic hazard assessment. Cities on Volcanoes – 10 (CoV-10), 2–7 September 2018, Naples, Italy.
- Pedrazzi, D., **Sunyé-Puchol, I.**, Aguirre – Díaz, G. J., Costa, A., Smith, V. C., Dávila – Harris, P., Miggins, D. P., and Hernández W. and Gutiérrez, E., (2018). The Ilopango Tierra Blanca Joven (TBJ) eruption, El Salvador: a major Holocene event of Central America, stratigraphy and hazards implications. Cities on Volcanoes – 10 (CoV-10), 2–7 September 2018, Naples, Italy.
- Pedrazzi, D., **Sunyé-Puchol, I.**, Aguirre - Díaz, G., Costa, A., Smith, V., Dávila-Harris, P., Hernández, W. and Gutierrez, E. The Ilopango Tierra Blanca Joven (TBJ) eruption, El Salvador: volcano-stratigraphy of a major Holocene event of Central America and Hazards implications. European Geoscience Union (EGU), General Assembly 8–13 April 2018, Vienna, Austria

2017

- **Sunyé-Puchol, I.**, Aguirre - Díaz, G., Dávila-Harris, P., Pedrazzi, D., Gutierrez, E., Hernández, W., Miggins, D. and Costa, A. The voluminous 1.75 Ma Olocuilta ignimbrite: a pre-collapse fissure supereruption of the Ilopango strike-slip caldera, El Salvador. IAVCEI 2017, 14-18 August, Portland, Oregon, USA.
- **Sunyé-Puchol, I.**, Aguirre - Díaz, G., Davila-Harris, P, Pedrazzi, D., Gutierrez, E. Miggins, D., Costa, A., Lacan, P. and Hernandez, W. "Olocuilta Ignimbrite: The first major eruption of Ilopango caldera, El Salvador". XIII Geological Conference of Central America, 6–9 June 2017, San Salvador, El Salvador.
- Aguirre-Diaz, G. J., **Sunyé-Puchol, I.**, Davila-Harris, P., Pedrazzi, D., Hernández, W, and Gutierrez, E. "Volcanic history of the Ilopango caldera, Central American Volcanic Arc". GSA Cordilleran Section, 23–25 May 2017, Honolulu, Hawai'i USA.

2016

- Aguirre – Díaz, G. J., Pedrazzi, D., **Sunyé-Puchol, I.** and Lacan, P. (2016). "Faults and Volcanoes: Main volcanic structures in the Acambay Graben, Mexico". AGU- FALL MEETING, 12–16 December 2016, San Francisco, USA.
- Pedrazzi, D., Aguirre- Díaz, G. J, **Sunyé-Puchol, I.**, Bartolini S. and Geyer (2016). Volcanic activity in the Acambay Graben: A < 25 Ka subplinian eruption from the Temascalcingo volcano and implications for volcanic hazard. European Geoscience Union (EGU), General Assembly 17–22 April 2016, Vienna, Austria.

2015

- **Sunyé-Puchol, I.**, Aguirre-Díaz, G., Dávila-Harris, P., Pedrazzi, D., y Hernández, W. (2015), Preliminary description of the initial phases of Ilopango caldera, El Salvador. XII Geological Congress of Central America, Managua, Nicaragua, 17–19 November 2015.
- **Sunyé-Puchol, I.**, Aguirre-Díaz, G., Dávila-Harris, P., Pedrazzi, D., y Hernández, W. (2015), Supereruptions of the Ilopango caldera, El Salvador. Mexican Geophysical Union Annual Meeting (RAUGM), Puerto Vallarta, Mexico, 2–7 November 2015.
- **Sunyé-Puchol I.**, Lacan P, Ortuño M., Villamor P., Audin L., Zúñiga R. y Aguirre-Díaz G. (2015). The San Mateo fault: new paleoseismological evidence of active faulting in the Acambay graben, Mexico. Advances and challenges in seismology, engineering and risk management at 30 years of the 1985 earthquake, Mexico DF, 17–19 September 2015.

2013

- Pierre Lacan, Ramón Zúñiga, María Ortuño, Mira Persaud, Gerardo Aguirre, Robert Langridge, Pilar Villamor, Héctor Perea, Petra Štěpančíková, Dora Carreon, Mariano Cerca, **Ivan Sunyé Puchol**, Ona Corominas, Laurence Audin, Stéphane Baize, Timothy Lawton y Albeiro Rendón (2013). Paleoseismological History of the Acambay Graben (Central Mexico). AGU- FALL MEETING, 9–13 December 2013, San Francisco, USA.
- **I. Sunyé-Puchol**, P. Lacan, R. Zúñiga, G. Aguirre-Díaz, T. Lawton, P. Villamor, R. Langridge, L. Audin y M. Ortuño (2013). Neotectonic study of the San Mateo fault: graben de Acambay, Mexico. Mexican Geophysical Union Annual Meeting (RAUGM) Puerto Vallarta, Mexico, 3–8 November 2013.
- **I. Sunyé-Puchol**, P. Lacan, P. Villamor, M. Ortuño, G. Aguirre-Díaz, L. Audin, T. Lawton, R. Langridge, y R. Zúñiga (2013). Paleoseismological study of the San Mateo fault, Acambay graben (Mexico). 4th International INQUA

meeting on Paleoseismology, Active Tectonics and Archeoseimology – PATA-DAYS, 9–15 October 2013, Aachen, Germany.

2012

- Sunyé-Puchol, P. Lacan, R. Zúñiga, M. Cerca, G.J. Aguirre-Díaz and M. Ortuño, (2012). "Analogue model of the San Pedro Volcano in the Acambay Graben (Mexico)". 3rd INQUA-IGCP 567 International Workshop on Active Tectonics, Paleoseismology and Archaeology, Morelia, Mexico 19–24 November 2012.

Organisation of Conferences Workshops and Field Trips

2024 Field-trip guide in the Garrotxa Volcanic Field, Catalan Pyrenees, during the 4th Annual Meeting of the Mediterranean Geosciences Union, Barcelona, Spain, 25–30 November 2024.

2024 Convener of the GMP11.1 session "Interdisciplinary approaches to better understand the volcanism in Anatolia and its effects", held at the EGU General Assembly 2024 in Vienna (Austria), 14–19 April 2024. Keynote: Prof. Stephen Sparks.

2023 Co-convener of the session S25 "A world at risk: evaluation of the hazard associated to volcanic eruptions, natural radioactivity and land instabilities" in the SIMP-SGI-SOGEI-AIV conference, 19–21 September 2023, Potenza (Italy)

2023 Organizer of the PCW3_INQUA WORKSHOP "Reconstructing the Quaternary explosive volcanic history of the Anatolian Peninsula: Implications for volcanic hazard assessments in Turkey", held during the INQUA-2023 conference held at Sapienza University of Rome of Rome (Italy), 13 July 2023.

2022 Organizer of the online seminar series about "Caldera de Ilopango: Un volcán active en el Àrea Metropolitana de San Salvador", by the "Dirección General del Observatorio de Amenazas y Recursos Naturales del MARN" (19, 20–26 September 2022, El Salvador).

2022 Co-convener of session S03, "Tephrochronology: A Powerful Tool for Unravelling the Past", 5th A. Rittmann Conference, Catania, Sicily, Italy, 29 September–1 October 2022.

2017 Member of the Organizing board of the XIII Geological Conference of Central America, 6–9 June 2017, San Salvador, El Salvador.

2016 Organization of the VII National Conference for students in Earth Sciences (11–13 May 2016, Queretaro, Mexico)

Public Engagement Media and Science Communication

2026 Interview in the newspaper Diari de Tarragona on volcanology, scientific research and my international academic career.

2026 Guest on "El divan", Catalunya Ràdio (3Cat), for a long-form interview on my scientific and personal career, recorded in Rome on 16 March 2026. Interview: "Ivan Sunyé: Si tens la força, el treball i no et rendeixes, al final ho aconseguiràs". Listen to the interview.

2025 Guest interview on The Weekly Mag, La Xarxa, Catalan television, on my scientific career and volcanological research. Watch the interview from minute 37.

2025 Radio interview with SER Radio Italy on the ongoing unrest at Campi Flegrei caldera, Italy, discussing seismicity, ground deformation and volcanic hazard.

2024 Community outreach during the Fire and Ice expedition aboard R/V Falkor (too), Schmidt Ocean Institute, Chile. Participated in an educational visit for 109 schoolchildren from the Chaitén area, introducing the expedition and the local geology and volcanism of Chaitén, September 2024. Fire and Ice expedition impact report.

2024 Speaker at Speed date with the Scientist of the European Researchers' Night in Rome, Italy (September 2024), communicating volcanology and Italian volcanic hazards to the general public.

2024 Interview on Canal Terres de l'Ebre, regional television in southern Catalonia, on volcanology and geology. Watch the interview.

2024 Interview in EOS (the award-winning science news magazine published by AGU), to talk about the volcanic history of Popocatépetl volcano.

2023 Organiser of a Sapienza University of Rome geoscience-outreach stand at Villaggio per la Terra, Earth Day Italy. Students presented interactive activities on earthquakes, aquifers, minerals and microscopy for children.

2022–present Contributor to Radio America Barcelona, leading the "Green World" section and producing science-news segments on climate change, ecology, volcanology and Earth sciences.

2021–present Vice-President of the Catalan Association in Rome; organiser of volcanology seminars and leader of science-outreach field trips to Italian volcanic areas, including the Colli Albani, Sabatini–Bracciano and Vulsini–Bolsena volcanic districts.

2017 Organizing committee member of the "CGEO-UNAM_Humanitarian mission" to supply basic provisions to the affected population by the last 7.1 earthquake in central Mexico (19 September 2017).

2016 Interviews with Salvadoran local radio stations and national television channels on Ilopango volcanism.

2012–2018 Participation in Earth Week science-outreach activities for primary and secondary school students in Querétaro, Morelia and Coahuila, Mexico, and Corvallis, Oregon, USA.

Professional Training and Courses

2025 IAVCEI Scientific Assembly field trip, *Mt. Etna and Aeolian Arc active volcanoes (Stromboli, Vulcano and Lipari): geology, eruptive activity and volcanic hazards*, Sicily and Aeolian Islands, Italy, 22–28 June 2025.

2025 Workshop "Correnti piroclastiche da collasso di depositi vulcanoclastici: genesi, trasporto, pericolosità e rischio", held at the Vesuvian Osservatori of INGV – Napoli, 3–4 June 2025.

2024 Course on Health and Safety at Work, general training for workers and equivalent personnel, Rome, September 2024. View credential.

2019 Short Course on the Application of Laser Ablation Inductively Coupled Plasma Mass Spectrometry to Earth Sciences, 5–7 June 2019, Department of Physics and Geology, University of Perugia, Italy.

2019 Emergency First Aid for Fieldworkers training, 29 May 2019, Oxford, United Kingdom.

2019 Software Carpentry course on best practices for scientific computing, 22–23 May 2019, School of Archaeology, University of Oxford, United Kingdom.

2018 RIESCA training in volcanic, seismic and hydrogeological monitoring for risk scenarios in Central America, Italian Agency for Development Cooperation, 23–28 September 2018.

2018 Cities on Volcanoes 10 workshop on eruption forecasts and warning at long-quiescent volcanoes, 8 September 2018, Naples, Italy.

2018 Short course on Magmas, Eruptions and Risk, 20–22 March 2018, Perugia, Italy.

2017 IAVCEI workshop on navigating the publication process and best publishing practices in volcanology and the physical sciences, 13 August 2017, Portland, Oregon, USA.

2014 First-aid course for fieldwork, Civil Protection Unit of Querétaro City, 6–7 May 2014, Querétaro, Mexico.

2013 Mexican Geophysical Union workshop on palaeoseismological studies of active faults in Mexico, 2 November 2013, Puerto Vallarta, Jalisco, Mexico.

Additional Information

Languages Native Catalan and Spanish; professional working proficiency in English and Italian; conversational Portuguese.

Professional memberships International Association of Volcanology and Chemistry of the Earth's Interior; IAVCEI Commission on Tephrochronology; Italian Association of Volcanology (AIV), International Union for Quaternary Research (INQUA); Italian Association for Quaternary Studies (AIQUA).