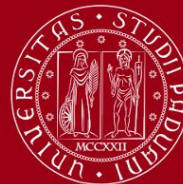




DIPARTIMENTO
DI GEOSCIENZE

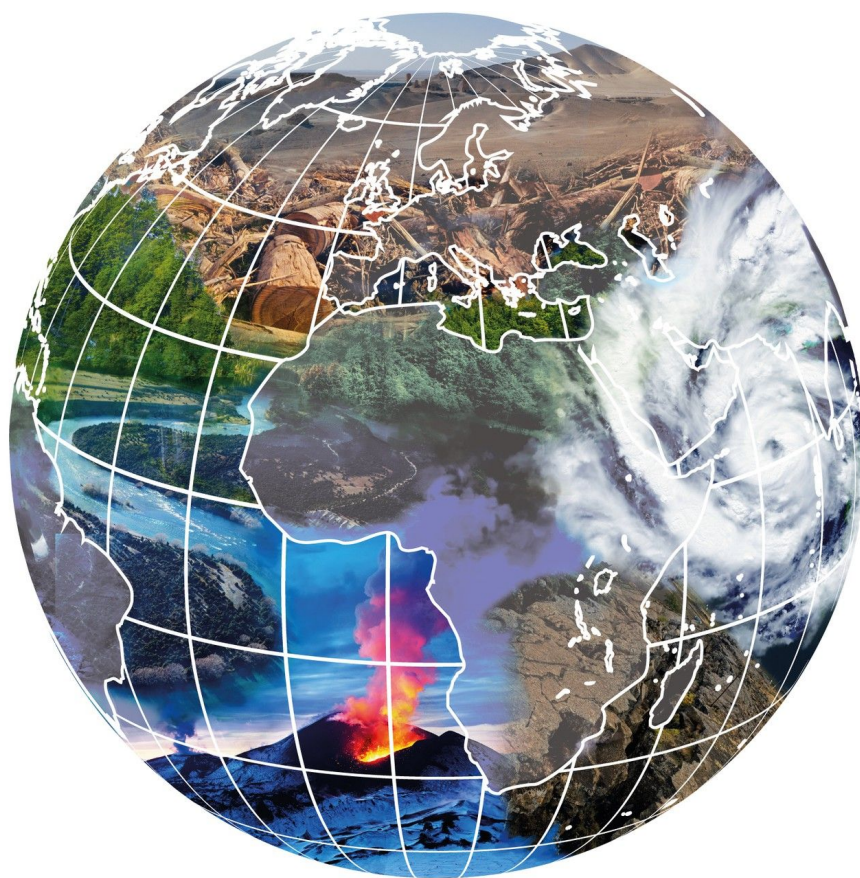


UNIVERSITÀ
DEGLI STUDI
DI PADOVA

PH.D. COURSE IN GEOSCIENCES

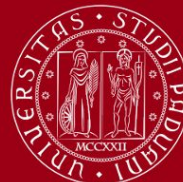
**Program of Ph.D. annual
presentations
XXXVIII-XXXIX series**

September 8-10, 2025



Dipartimento di Geoscienze, Università di Padova
via Giovanni Gradenigo, 6 – Room Catullo

Zoom: <https://unipd.zoom.us/j/83914184683?pwd=jfFkikw9fWS7ObQG7oCuDgREoW240q.1>



PH.D. COURSE IN GEOSCIENCES

Program of Ph.D. presentations –XXXVIII-XXXIX series

September 8-10, 2025

September 8 – XXXVIII series – 3rd year student presentations

	Candidate	Title of Ph.D. Thesis	Supervisor/ Co-Supervisor
h. 09.00	Wu Wei-Hsin	EXPERIMENTAL STUDIES OF FLUID-ROCK INTERACTION AND SEISMIC CYCLE IN GEOTHERMAL FIELDS	Di Toro Violay/Tesei
h. 09.30	Costa Nicole	INTEGRATING SPECTRAL, RADAR DATA AND 3D MODELLING TO INVESTIGATE THE STRATIGRAPHY OF THE MARTIAN POLAR CAPS	Massironi/Altieri
h. 10.00	Sandoval Espinel Leidy Carolina	THERMOTECTONIC HISTORY OF THE SOUTHERNMOST NORTHERN ANDES	Zattin Witt/Bermúdez
break			
h. 11.00	Uguagliati Francesca	MICROPLASTICS IN AQUATIC ENVIRONMENTS: INTERACTION WITH SEDIMENTS AND TRANSPORT DYNAMICS	Ghinassi/Zattin
h. 11.30	Calzoni Pietro	PALEOBIODIVERSITY IN THE EARLY PALEOGENE GREENHOUSE WORLD: THE FISH-BEARING LAGERSTÄTTEN RECORD OF NORTHEASTERN ITALY	Giusberti/Carnevale
h. 12.00	Bubola Federica	DIAGNOSTIC AND EXPERIMENTAL APPROACHES FOR THE CONSERVATION OF GYPSUM REPLICAS: FROM INDOOR CLIMATE ASSESSMENT TO AGEING-INDUCED MATERIAL TRANSFORMATIONS	Mazzoli Balliana/Coletti
break			
h. 14.30	Disconzi Filippo	PHYSICO-CHEMICAL PROPERTIES AND REACTIVITY OF SILICATE MELTS BY THERMODYNAMIC MODELLING. IMPLEMENTATION FOR VALORIZATION AND ENGINEERING OF STEEL SLAGS	Artioli Bellotto/Brunelli
h. 15.00	Fontanari Alessandro	CERAMIC MANUFACTURING PROCESS OPTIMIZATION: BEHAVIOUR OF MINERAL SUSPENSIONS	Artioli/Bellotto
break			
h. 16.00	Guida Riccardo	USE OF THE MINERALIZED PHASE IN CEMENTS: MECHANISMS OF INTERACTION BETWEEN THE COMPONENTS AND THE LONG-TERM CEMENT AND ALTERNATIVE USES TO SCM	Artioli Dalconi/Millini
h. 16.30	Lucarelli Chiara	ARCHAEOMETRIC STUDIES ON ITALIAN ARTIFACTS FROM FINAL COPPER AGE TO EARLY IRON AGE	Artioli/Angelini



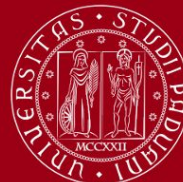
PH.D. COURSE IN GEOSCIENCES

Program of Ph.D. presentations –XXXVIII-XXXIX series

September 8-10, 2025

September 9 – XXXVIII series – 3rd year student presentations

	Candidate	Title of Ph.D. Thesis	Supervisor/ Co-Supervisor
h. 09.00	Del Piccolo Gianmarco	EXPLORATION OF MONTE CARLO TRANSDIMENSIONAL METHODS FOR ANISOTROPIC SEISMIC IMAGING	Faccenda/ Morelli/VanderBeek
h. 09.30	Isania Fatemeh	UNDERGROUND THERMAL ENERGY STORAGE: NEW SOLUTIONS AND SUSTAINABILITY	Galgaro/ Di Sipio
h. 10.00	Gaspari Marco	TOWARDS SCALABLE AND RAPID SEISMIC VULNERABILITY AND DETERIORATION ASSESSMENT OF HETEROGENEOUS BUILDING STOCKS: SIMPLIFIED METHODOLOGIES AND INNOVATIVE TOOLS	da Porto/Donà
break			
h. 11.00	Molon Nicola	BRIDGE MANAGEMENT UNDER CLIMATE CHANGE: ANALYSIS OF REGULATIONS, MONITORING STRATEGIES, AND ASSESSMENT OF FUTURE THERMAL EFFECTS	da Porto/Figueiredo
h. 11.30	Rampado Michol	NUMERICAL MODELLING STRATEGIES FOR THE SEISMIC VULNERABILITY ANALYSIS OF CHURCHES AND EVALUATION OF STRENGTHENING INTERVENTIONS	da Porto/Malomo
break			
h. 12.15	Bhookya Rajeshwari	ASSESSING THE IMPACT OF CLIMATE CHANGE ON LANDSLIDES IN THE ALPINE ENVIRONMENT	Floris/Rosi
h. 12.25	Ceresara Marco	MULTI-RISK ANALYSIS AND LOSS ESTIMATION FOR INDUSTRIAL ASSETS AT A TERRITORIAL SCALE	da Porto/Donà
h. 12.35	Dan Azimi Mohamman	FEASIBILITY AND PERFORMANCE ANALYSES OF CLOSED-LOOP HEAT EXCHANGER SYSTEMS FOR ENERGY EXTRACTION IN HIGH TEMPERATURE GEOLOGICAL ENVIRONMENTS	Galgaro/ Di Sipio/Procesi
h. 12.45	Dzoh Fonkou Joseph Patrick	CHEMICAL, PHYSICAL, STRUCTURAL AND MORPHOLOGICAL CHARACTERIZATION OF RECYCLED MATERIALS TO PROMOTE THE CIRCULAR ECONOMY IN ITALIAN MANUFACTURING (CPSMR)	Salviulo/ Lavagnolo



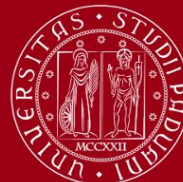
PH.D. COURSE IN GEOSCIENCES

Program of Ph.D. presentations –XXXVIII-XXXIX series

September 8-10, 2025

September 10 – XXXIX series – 2nd year student presentations

	Candidate	Title of Ph.D. Thesis	Supervisor/ Co-Supervisor
h. 09.00	Cesareo Ludovica Pia	KEEPING UP WITH CORROSION: HOW ENVIRONMENTAL STRESSES AND CLIMATE CHANGE AFFECT THE DETERIORATION OF METALLIC MATERIALS IN UNDERWATER CULTURAL HERITAGE SITES	Mazzoli Germinario/MacLeod
h. 09.10	Krona Mikaela	CARBON CYCLING IN THE ANATECTIC DEEP CRUST	Cesare/ Bartoli/Carvalho
h. 09.20	Mutai Victor	DATA SCIENCE AND LIFE CYCLE ANALYSIS OF SUSTAINABLE CEMENTITIOUS MATERIALS IN SUB-SAHARAN AFRICA	Valentini/ Mwiti Marangu
h. 09.30	Novais Rodrigues Eduardo	ORIGIN, DEPTH, AND AGE OF SUPER-DEEP DIAMONDS	Nestola/ Pearson/Timmerman
h. 09.40	Regnotto Francesca	ROOF TILES MANUFACTURE. INTER-RELATIONSHIPS BETWEEN RAW MATERIALS SELECTION, PRE-TREATMENT AND PROCESSING PARAMETERS WITH MICROSTRUCTURE AND GELIVITY. RESOURCE AND ENVIRONMENTAL IMPACT OPTIMIZATION	Artioli/Bellotto
h. 09.50	Veronese Mauro	NATURAL FORGERIES: FALSIFICATION TECHNIQUES OF MUSEUM SPECIMENS (FOSSILS AND MINERALS)	Artioli/Molinari
break			
h. 10.10	Abdulghany Abdullah Abualnour Ahmed	OPTIMIZING DESIGN AND PROCESSING STRATEGIES FOR RENEWABLE ENERGY EXPLORATION	Barone/ Cassiani/Strobbia
h. 10.20	Bressan Sofia	UNDERSTANDING OF THE TRIGGERING MECHANISMS OF INDUCED EARTHQUAKES IN MEDIUM AND HIGH ENTHALPY GEOTHERMAL POWER PLANTS USING NUMERICAL MODELLING	Cassiani/Brovelli
h. 10.30	Censini Matteo	HYDROGEOPHYSICAL TECHNIQUES FOR SPAC (SOIL-PLANT- ATMOSPHERE CONTINUUM) CHARACTERIZATION AND MONITORING OF STATE AND FLUXES OF MASS AND ENERGY	Cassiani/Peruzzo
h. 10.40	Nesterova Olga	DENSELY DISTRIBUTED SENSOR NETWORKS FOR SEISMIC WAVE DETECTION IN COMPLEX ENVIRONMENTS FOR CIVIL ENGINEERING APPLICATIONS	Barone/ Cassiani/Brovelli
h. 10.50	Fabris Margherita	ANALYSIS, DIGITALISATION AND INTERVENTION ON URBAN AGGREGATES TO REVAMP HISTORICAL CENTRES AND VILLAGES (ADIACENT)	da Porto Zanchetta/Guedes
break			



PH.D. COURSE IN GEOSCIENCES

Program of Ph.D. presentations – XXXVIII-XXXIX series

September 8-10, 2025

September 10 – XXXIX series – 2nd year student presentations

	Candidate	Title of Ph.D. Thesis	Supervisor/ Co-Supervisor
h. 11.20	Aldrighetti Silvia	MECHANISM OF FORMATION OF TECTONIC "GIANT PSEUDOTACHYLYTES"	Di Toro Pennacchioni/Baccheschi
h. 11.30	Cacciari Serena	DEFORMATION MECHANISMS AT INTERMEDIATE DEPTHS IN SUBDUCTION ZONES: THE ROCK RECORD OF EARTHQUAKES AND SLOW EARTHQUAKES	Pennacchioni Cannaò/Sgambelluri
h. 11.40	Salvadori Leonardo	SLOW SLIP MECHANISMS IN THE SEISMOGENIC ZONE	Tesei/Di Toro
h. 11.50	Dong Yingbo	NOVEL APPROACHES FOR THE USE OF ADVANCED INSAR TIME-SERIES ANALYSIS IN ASSESSING AND FORECASTING GROUND DISPLACEMENTS	Catani/Floris
h. 12.00	Khan Junaid	IMPROVED INSAR TECHNIQUES FOR ARTIFICIAL INTELLIGENCE-BASED MODELLING AND PREDICTION OF GROUND DEFORMATION	Floris/Rosi
break			
h. 12.20	Azzalin Mattia	ANCIENT HUMAN IMPACT ON ENVIRONMENTAL AND GEOMORPHIC DYNAMICS OF THE TRANSITIONAL ENVIRONMENTS	Fontana Mercuri/Donders
h. 12.30	Shrestha Sahansila	INCREASING THE RELIABILITY OF SIMULATIONS OF SEDIMENT CONNECTIVITY AND TRANSPORT IN RIVER NETWORKS	Bizzi Bozzolan/Pianosi
h. 12.40	Baldan Maela	ANALYSIS OF BIOMARKERS FROM PRE-PROTOHISTORIC ARCHAEOLOGICAL CONTEXTS BY MEANS OF SEPARATION TECHNIQUES COUPLED WITH MASS SPECTROMETRY	Nicosia/Battistel
h. 12.50	Conedera Davide	THE TRIASSIC FAUNAL RECOVERY IN THE DOLOMITES (SOUTHERN ALPS, ITALY)	Monari Gatto/Tintori