Curriculum vitae

PERSONAL INFORMATION

Michele Pipan

22, via dei Panzera, 34136 Trieste (Italy)

mobile: (+39)3495014267
office: (+39)0405582277
home:(+39)040425110

pipan@units.it

www.units.it

Skype michele.pipan

PERSONAL STATEMENT

Professor and coordinator of the Exploration Geophysics at University of Trieste.

Research interests in processing, inversion and interpretation of geophysical data with particular reference to reflection seismic and GPR methods.

Experience in regional exploration projects (Mediterranean and Black Seas, Peri-antarctic continental platform) and shallow high-resolution studies with applications to archaeology, environment, rocks and sediments characterization, glaciology.

Author of more than 100 papers and book chapters.

Reviewer for several scientific journals (among which Geophysics, Journal of Applied Geophysics, IEEE Transactions on Geoscience and Remote Sensing).

Associate editor for Bollettino di Geofisica Teorica e Applicata and Rendiconti Online -Societa' Geologica Italiana.

Organisational skills as coordinator of Earth Sciences BSc, MSc and PhD courses, deputy director of the Science Faculty, delegate of Research and Deputy Rector of University of Trieste, proponent and coordinator of the Master Course in Geophysics and Geodata (2021), proponent , coordinator and scientific responsible of several national and international scientific projects and expeditions (Antarctica, Egypt, Israel, Kazakhstan, Peru', Russia, Slovenia, Turkey).

WORK EXPERIENCE

01/11/2005–Present

Professor of Exploration Geophysics

University of Trieste, Trieste (Italy)

Coordinator of Exploration Geophysics Group at the Department of Mathematics and Earth Sciences

Deputy Dean Faculty of Sciences

Coordinator of Earth Sciences Courses (BSc, MSc)

Coordinator of PhD course in Earth Sciences

Delegate of Research at University of Trieste.

Deputy Rector of University of Trieste

Proponent and coordinator of the Master Course in Geophysics and Geodata

Scientific coordinator of the Italian research unit of EU FP7 project MICCS (a new Methodology for Investigating and Characterizing Contaminated Sites)

Member of the Board of the Italian Geothermal Union (2014-16)

Scientific responsible for the geothermal programme of UNIDO- International Centre for Science and High Technology (ICS-UNIDO; 2008-2010)

Member of the thematic group on Cultural Heritage for the National Program of Research (2020)

Member of the interdisciplinary Group of Expert Evaluators (GEV) on Third Mission for the 2015-19 VQR

Member of the Board of Directors of the National Institute of Oceanography and Experimental Geophysics (appointed by the Ministry of University and Research)

Member of the Executive Committee of the CASTES Project “Establecer y desarrollar la carrera de Licenciatura en Ciencias de la Tierra con énfasis en la Geologia en la Universidad de El Salvador”

01/11/1999–31/10/2005

Associate Professor Exploration Geophysics

University of Trieste, Trieste (Italy)

Coordinator of Near Surface Laboratory of the Exploration Geophysics

Group (University of Trieste)

Proposer and Coordinator of EU FP5 project HYGEIA (HYbrid Geophysical technology for the Evaluation of Insidious contaminated Areas), total budget around 1.8 M€

Proposer and coordinator of EU Tempus project ATECH (Advanced TEchnology training program for Cultural Heritage)

Member of the national geophysical committee of the Italian Program of Antarctic Research

01/11/1990–31/10/1999

Assistant Professor Solid Earth Geophysics

University of Trieste, Trieste (Italy)

01/06/1986–31/12/1989

PhD Candidate

University of Trieste, Trieste (Italy)

Geophysical study of Black Sea

18/02/1985–30/05/1986

EDP programmer analyst

Informatica Friuli-Venezia Giulia, Trieste (Italy)

data analyst

software designer and developer

01/10/1982–31/01/1985

Geophysicist

SMEs and professionals of the Earth sciences sector

Geophysical data acquisition, processing, inversion and interpretation

EDUCATION AND TRAINING

01/11/1980–29/11/1984

MSc Degree in Geology (Laurea) Honors and special mention

EQF level 7

University of Trieste, Trieste (Italy)

Geology, Exploration Geophysics
Reflection Seismic data processing and interpretation

01/06/1986–31/12/1989

PhD in Solid Earth Geophysics

EQF level 8

University of Trieste, Trieste (Italy)

Geophysical data analysis, processing, inversion and interpretation
Geophysical Study of the Black Sea
Reflection seismic data analysis, processing, inversion and interpretation

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	C1	B1	B1	B1
German	A2	A2	A2	A2	A1
Spanish	B2	B2	A2	A2	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills: excellent communication and contact skills gained through my academic experience (lessons, conferences, workshop, dissemination, project coordination, organizational tasks)

Organisational / managerial skills: leadership: currently responsible for a research unit of 5 persons

good organisational skills as coordinator of academic courses (BSc, MSc and PhD level), as deputy dean of the Faculty of Sciences, as delegate of research of the University, as Deputy Rector, as scientific responsible and coordinator of research and training of the geothermal program of the International Centre for Science and High Technology (ICS) UNIDO (United Nations Industrial Development Organization)

good team-leading skills as scientific projects coordinator (national and international) and as organizer and coordinator of several international geophysical expeditions (Antarctica, Egypt, Israel, Kazakhstan, Peru', Russia, Slovenia, Turkey)

Job-related skills: good IT skills as responsible of the processing centre of the Exploration Geophysics Group

good quality control skills as reviewer (scientific literature and projects), associate editor of scientific journals, evaluator of research performances

good mentoring skills (as tutor of undergraduate and graduate students and post-doc researchers)

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Recent scientific papers:

Lu G., Zhao W., Forte E., Tian G., Li Y., Pipan M. (2020). Multi-frequency and multi-attribute GPR data fusion based on 2-D wavelet transform. **MEASUREMENT**, vol. 166, p. 108243-108249, ISSN: 0263-2241, doi: 10.1016/j.measurement.2020.108243

Luca Bianchin, Emanuele Forte, Michele Pipan (2019). Acoustic impedance estimation from combined harmonic reconstruction and interval velocity. **GEOPHYSICS**, vol. 84, p. R385-R400, ISSN: 0016-8033, doi: 10.1190/geo2018-0296.1

Zhao, Wenke, Forte, Emanuele, Fontolan, Giorgio, Pipan, Michele (2018). Advanced GPR imaging of sedimentary features: Integrated attribute analysis applied to sand dunes. **GEOPHYSICAL JOURNAL INTERNATIONAL**, vol. 213, p. 147-156, ISSN: 0956-540X, doi: 10.1093/gji/ggx541

Bernardini, Federico, Vinci, Giacomo, Forte, Emanuele, Furlani, Stefano, Pipan, Michele, Biolchi, Sara, De Min, Angelo, Fragiacomo, Andrea, Micheli, Roberto, Ventura, Paola, Tuniz, Claudio (2018). Discovery of ancient Roman "highway" reveals geomorphic changes in karst environments during historic times. **PLOS ONE**, vol. 13, p. 1-19, ISSN: 1932-6203, doi: 10.1371/journal.pone.0194939

Zhao, Wenke, Forte, Emanuele, Fontana, Federica, Pipan, Michele, Tian, Gang (2018). GPR imaging and characterization of ancient Roman ruins in the Aquileia Archaeological Park, NE Italy. **MEASUREMENT**, vol. 113, p. 161-171, ISSN: 0263-2241, doi: 10.1016/j.measurement.2017.09.004

Busanello, Gabriele, Ben, Anna Del, PIPAN, MICHELE (2017). Petroleum systems modelling as an exploration tool: from surface seismic acquisition to basin modelling: a case study from a periplatform basin in Northern Adriatic. **FIRST BREAK**, vol. 35, p. 69-76, ISSN: 0263-5046

Dossi, M., Forte, Emanuele, Pipan, M. (2017). Quantitative Analysis of GPR Signals: Transmitted Wavelet, Amplitude Decay, and Sampling-Related Amplitude Distortions. **PURE AND APPLIED GEOPHYSIC**S, ISSN: 0033-4553, doi: 10.1007/s00024-017-1752-2

Forte Emanuele, Dossi Matteo, Pipan Michele, Del Ben Anna (2016). Automated phase attribute-based picking applied to reflection seismics. **GEOPHYSICS**, vol. 81, p. V141-V150, ISSN: 0016-8033, doi: 10.1190/geo2015-0333.1

Zhao Wenke, Forte Emanuele, Colucci Renato R., Pipan Michele (2016). High-resolution glacier imaging and characterization by means of GPR attribute analysis. **GEOPHYSICAL JOURNAL INTERNATIONAL**, vol. 206/2016, p. 1366-1374, ISSN: 0956-540X, doi: 10.1093/gji/ggw208

Forte Emanuele, Pipan Michele (2016). Review of multi-offset GPR applications: Data acquisition, processing and analysis. **SIGNAL PROCESSING**, vol. 132, p. 210-220, ISSN: 0165-1684, doi: 10.1016/j.sigpro.2016.04.011

Zhao Wenke, Forte Emanuele, Pipan Michele (2016). Texture Attribute Analysis of GPR Data for Archaeological Prospection. **PURE AND APPLIED GEOPHYSICS**, vol. 173, p. 2737-2751, ISSN: 0033-4553, doi: 10.1007/s00024-016-1355-3

ZHAO, WENKE, Tian, G., FORTE, Emanuele, PIPAN, MICHELE, Wang, Y., Li, X., Shi, Z., Liu, H. (2015). Advances in GPR data acquisition and analysis for archaeology. **GEOPHYSICAL JOURNAL INTERNATIONA**L, vol. 202, p. 62-71, ISSN: 0956-540X, doi: 10.1093/gji/ggv121

Forte Emanuele, Pipan Michele, Francese Roberto, Godio Alberto (2015). An overview of GPR investigation in the Italian Alps. **FIRST BREAK**, vol. 33(2015), p. 61-67, ISSN: 0263-5046

Dossi Matteo, Forte Emanuele, Pipan Michele (2015). Automated reflection picking and polarity assessment through attribute analysis: Theory and application to synthetic and real ground-penetrating radar data. **GEOPHYSICS**, vol. 80(2015), p. H23-H35, ISSN: 0016-8033, doi: 10.1190/GEO2015-0098.1