

CURRICULUM VITAE - EU PHARE Format

AREAS OF EXPERTISE (Brief summary description)

**Consultant/Research Scientist in Geology, Geographic Information System
CNRS/Ecole Normale Supérieure**



Regional synthesis of geological/geophysical data, and cartography of deformed tectonic belts and basins, particularly in convergent and strike-slip settings. Tectonic & magmatic environment of ores and oil environments

Application Experience

- Digital Geological Mapping
- GIS in Geology
- Structural Geology
- Needs Analysis
- Technical Analysis
- Functional Specification
- System Evaluation and Selection

Industry Experience

- Geological Mapping for Oil and Mine Industry
- Digital atlases
- Deep offshore tectonic syntheses (CONOCO, EXXON, UNOCAL, TOTAL)
- Cartography and GIS (UNESCO – CGMW)

1. Surname:	PUBELLIER
2. First Names (s)	Manuel
3. Date of Birth:	16 May 1959
4. Nationality:	French
5. Civil Status:	Married with 2 children
6. Education:	
Institutions:	Université Pierre & Marie Curie – Paris VI, France
Date: from (month/year) to (month/year)	1987
Degree(s) or Diploma(s):	PhD in Tectonics

Institutions:	Ecole Normale Supérieure, France
Date: from (month/year) to (month/year)	1999
Degree(s) or Diploma(s):	Entitlement of Research Director (HDR - Habilitation for Directing Research)

Institutions:	Université Pierre & Marie Curie – Paris VI, France
Date: from (month/year) to (month/year)	1983
Degree(s) or Diploma(s):	Master of Sciences DEA Geology – Science de la Terre

Institutions:	Université Pierre & Marie Curie – Paris VI, France
Date: from (month/year) to (month/year)	1977
Degree(s) or Diploma(s):	Matriculation – BAC

7. Language skills: (Mark 1 to 5 for Competence; where 5 is the highest)

Language	Reading	Speaking	Writing
English	5	5	5
French	5	5	5
Spanish	5	5	4
German	3	3	3
Chinese Cantonese	1	4	1
Haitian Créole	4	4	2
Indonesian	2	2	2

8. Membership of professional bodies:

Name of Professional Body	Type of Membership
Société Géologique de France (SGF)	Assistant Editor (1988-1992) Vice-President (1995-1996) Counsellor (1997-1998)
CGMW	Executive member since 1999
American Geophysical Union	Member
American Assoc. Petrol. Geologists	Member

9. Other skills: (e.g. computer literacy, etc.)

Skill, applications used, area of expertise	Comments
GIS	Geomedia Professional, MGE, ErMapper, GMT, Global Mapper
Interpretation of geophysical documents	Seismic lines, airmag and gravity data, magneto-telluric, resistivity and GPS devices onland and other marine geology tools and softwares. Selection and Implementation of GPS sites
Image Interpretation	MS and SAR documents, SRTM, SPOT, Landsat 3/5/7, SAR, ERS-1, ERS-2, JERS-1, Radarsat and Arial photographs
Relational Data Base	Usage of Oracle
Map Finishing and Production	GIS and CAD (Microstation, Illustrator)
Remote Sensing	MBI-Imager, ENVI, I/RAS C,

Project Management	- Tectonic setting of Porphyry-Copper deposits (NBM, BRGM/GENCOR/MINSAKO) - Deep offshore Tectonic synthesis (CONOCO, EXXON, UNOCAL, TOTAL-FINA-ELF) - Strain in Borneo (UNOCAL), and Sunda (TOTAL) Cartography and GIS (UNESCO-CGMW) - Mapping & Remote Sensing (TOTAL, NAPOCOR, FUGRO-GEOTEAM)
Operating Systems	DOS and NT
Training and lectures	- Lecturer in Geology and Geodynamics (Post-Graduate DEA and DESS in the University of Paris 6 and Ecole Normale Supérieure) - Lecturer in ENSPM (IFP School) ; since 1993 « - Lecturer in University Pierre et Marie Curie « Geo-environments, Remote Sensing and GIS » from 1998 to 2001

10. Present position:

Title	Role
Researcher in CNRS Ecole Normale Supérieure	- Areas of investigation: oblique convergent margins, SE Asia (Philippines, Indonesia, New Guinea, Burma) and Caribbean. Deformed cratonic areas (China) - Expertise: Regional synthesis of geological/geophysical data, and cartography of deformed tectonic belts and basins, particularly in convergent and strike-slip settings. Tectonic & magmatic environment of ores and oil environment - Tools: Structural geology in tropical and subtropical environment, tectonic and fault-slip analyses, satellite and aerial imagery including SAR and multispectral, cartography and GIS

11. Years within the company:

9 years

12. Key qualifications: (Relevant to the project)

Head of Geodynamic Team (2003-2004) and vice-director of Lithosphere dynamics Team (2004+) at Ecole Normale Supérieure Paris
Decision maker: Acquisition of GIS software for Geosciences Mapping – ENS – needs analysis, functional specification, software evaluation
Project manager for the Neotectonic Map of Southern China from ERS-2 and Landsat 7 images (funded by RGC Grant and PAI-Procore), coop. ENS-HKU, Hainan Geological Survey, Nanning Institute Technology., Hanoi Inst. Oceanography
Supervisor of 4 PhD thesis : Structures and GPS in Yunnan-Burma - Structures and GPS in the Northern Philippines – Origin of basement rocks in Luzon, Philippines - Structure of the Savu Basin, Indonesia from Seismic lines and Imagery.
Lecturer in Remote Sensing and GIS applied to Geological Mapping and Geo-Environment; France and HongKong
Projet leader Long Men Shan project (Mapping , remote sensing, Interferometry, GPS in central China), cooperation with University of Hong Kong. and Chengdu Institute of Technology
Consultant for GeoSciences Consultant (2002-2004)
Co-Founder Geolines, a GIS Consultant Company (2003)
Field trip supervisor for students in Hong Kong, USA and France.
Conferences (invited), U. Montpellier, U. Brest, U. Grenoble, U. Hong Kong, U. Chengdu (China)

13. Specific experience (in non-EU member countries):

Country	Date: from (month/year) to (month/year)	Name and brief description of the project
UNOCAL Oil, USA	2000-2004	Project Manager on UNOCAL Oil project in Indonesia (Borneo); strain and structure
UNESCO-CGMW Commission for Geological Map of the World	2000-2004	Supervisor of "Tectonic Map Of Asia" Compilation and Presentation of Digital Tectonic Map of Asia – 32 nd International Geological Congress, Florence, Italy August, 2004
Executive Member of DIMAS Group	2000-20042000- 2004	(CGMW) International sub-commission for digital standards for geological maps

14. Professional Experience Record:

Date: from(month/year) to	1998-2000
Location	Paris, France
Company	Ecole Normale Supérieure – CNRS (Centre National de Recherche Scientifique)
Position	Senior Researcher
Description	Academics - Project Manager "Neotectonics of the China margin" with Hong-Kong Univ. - Shenzhen Invest.Res. Inst. (PRC) - Project Manager on the neotectonics of the China/Vietnam continental margin; Field work in Vietnam in cooperation with Hanoi Institute of Oceanography/HIO with supervision of graduate and post grad. Students - Presentation of Research Certificate (HDR) subject « accretion of exotic blocks along oblique convergent margins and pericratonic mountain building » - Leader of Field trip with Hong Kong University in China, and ENS and U. Paris-Sud in the Pyrennées and the Alps - Supervision of PhD students - Conferences: <i>College de France Paris, Royal Holloway-Univ. of London, Philippines U–NIGS, Hong Kong U.</i> Industry - Technical Manager of DOTSEA Project (consortium of Oil Companies involving ELF, EXXON, CONOCO, UNOCAL) on the synthesis of deep offshore tectonics in SE Asia. Mission in Houston (Tx) - Project with TOTAL (SAR Analyses of Fold &Thrust Belt in New Guinea)

Date: from(month/year) to	1993-1998 (Dept of Geology, dir : X. Le Pichon)
Location	Paris, France
Company	Ecole Normale Supérieure
Position	Research Scientist – fist class position

Description	Academics (Ecole Normale Supérieure in Paris (Dept of Geology, dir : X. Le Pichon) - Asean-EEC project GEODYSSSEA : Geodesy project in SE Asia. Selection and implementation of GPS stations in SE Asia. In charge of Irian Jaya sites. - RP-France Project, Bur. of Mines and Energy : field works in Mindanao (x 4), publication of Neotectonic map - Implementation of a geological GIS database on SE Asia. - LIPI, ITB : Field work in Irian Jaya and (PNG), Sumatra, Talaud is., (Indonesia), Myanmar-TOTAL, and China - GPS, Microseismicity (OBS) network/bathymetric/seismic survey in the Molucca Sea (S. Philippines). - Supervision of PhD students and Leader of Field trips in France with ENS and U. P & M Curie - Conferences <i>College de France Paris, U. Paris Sud</i> Industry - Project for power cable for AS FUGRO-GEOTEAM (Norway). Digital offshore geological map production. - Convenior and field trip organizer on the GEOSEA-Oil & Gas Meeting in the Philippines in Feb. 1995 - Project in New Guinea (Irian Jaya-Indonesia), Helicopter-assisted exploration of Central Irian Jaya Emplacement, deformation and alteration of Au/Cu Porphyries (PT Nabire Mining / BRGM, GENCOR and MINSAGO).
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Date: from(month/year) to	1992 – 1993
Location	Paris
Company	University of Paris 6 (Pierre & Marie Curie)
Position	Research Scientist – fist class position
Description	Academics - Start of project in Irian Jaya (Indonesia) : Topic « arc-continent collision and deformation of the Australian margin » ; Cooperation with various Indonesian research institutes). - 1st Class Research Position (CNRS, France) Industry - Project with TOTAL-Indonesia. Structural studies in the foreland of Western New Guinea (2 field works) - Project with NPC/Coyne-Bellier; geological survey of Dam Project, Philippine - Project with WESTERN MINING Co. (Porphyry coppers of Mindanao, Philippines, digital cartography and DEM)

Date: from(month/year) to	1989 to 1991
Location	Paris
Company	University of Paris
Position	Research Scientist –second class position

Description	Academics - Kinematics of SW Pacific within joint project (Tethys). Computer-assisted Plate tectonic reconstructions (published). Convenior of Int. Meeting on the tectonic processes along the SE Asian margins", London, 1991 - Field works in Mindanao (Philippines) from 1988 to 1995 under Rep. Philippines-France cooperation, Mines and Geosciences Bureau and Phil. Inst. of Volcanology and Seismology. - Supervision of 2 Philipino PhD thesis on the Neotectonics of the southern Philippines, Strike-slip faults and active margin tectonics. - Projects in Sumatra (Mentawai islands), from 1992 to 1994 "active wrench Faults and fore arc deformation. Marine geophysical survey (SUMENTA), in cooperation with indonesian institutes (BPPT & LIPI, ITB, Geol. Res. and Dev Center of Bandung). Supervisor of Indonesian graduate student. Industry Project in SE Borneo (Meratus Mountains and Barito Basin) SE Kalimantan) and Sumatra with TETHYS Oil Consortium Group.
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Date: from(month/year) to	1987 - 1989
Location	Paris
Company	University of Paris
Position	Research Scientistr
Description	Academics - Research at University of PARIS 6 (Dept. of Geotectonics, dir : J. Aubouin). - Appointed at Centre National de la Recherche Scientifique (CNRS) in 1988 - Participation to Ocean Drilling Program (ODP) Drillings in SE Asian marginal basins (Leg 124-Celebes and Sulu seas) as sedimentologist. Industry Geophysical prospections in France and Spain ; Geologic mapping along pipeline projects in France (GDF-HYDROGEO, GEOCONSULT)

Date: from(month/year) to (month/year)	1983-1984
Location	Republic of Haiti
Company	Coopération with French Government
Position	Lecturer and Researcher at Ecole de Tchniciens Géologues
Description	Academics - Researcher and lecturer in Republic of Haïti. - Topic of research : <i>Neotectonics of Hispaniola. Relay zone between diachronous transcurrent faults at the boundary of the North American and the Caribbean plates.</i> - Lecturer at University of Port au Prince and Ecole Moyenne de Techniciens Geologues (EMTG), Haïti - Mapping of Haïti using IGN false coloured air photographs, and systematic field control with paleontological datings and structural analysis. Industry - Geological Mapping Project with the Bureau of Mines of Haiti - Consultancies on water prospection for CARE Haiti

Date: from(month/year) to (month/year)	1979 - 1984
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Location	Paris
Company	University of Paris 6
Position	Thesis writing
Description	Academics ?? Field works in Mexico. Topic : <i>Mesozoic sutures and transcurrent faults</i> Industry - Part time CGMW (Commission for the Geological Map of the World) - Project « Remote Sensing and Gold mineralisation » with field work, Remote Sensing, and Reflectance ground measurements (Direccion de Minería – State of Sonora, Mexico) - Geological field work and trainings in southern France, in tectonics sedimentology and stratigraphy.

15. Others:

e.g. Publications, reports, presentations speeches

85 published papers, 90 abstracts at international conferences, 6 geological maps and atlases (5 digital)

Among these, please find the following:

When	Description
2004	2004 Pubellier M., Ego, F., Geodynamic-Terrane Map of Asia: toward a new style" in Earth imaging: modeling and databanks. A prospective for the 21st century after more than a hundred years of mapping experience (T12.01). 32nd International Geological Congress Florence Aug 20-28, 2004
2003	2003, Vigny, C., A. Socquet, C. Rangin, N.Chamot-Rooke, M. Pubellier , M-N Bouin, G. Bertrand, and M. Becker, Present-day crustal deformation around Sagaing fault, Myanmar, Journal of Geophysical Research , Vol. 108, No. B11, 2533, doi:10.1029/2002JB001999, 2003
2004	2003 Pubellier, M. , Ego, F. Chamot-Rooke, N., Rangin, C. The building of pericratonic mountain ranges : structural and kinematic constraints applied to GIS-based reconstructions of SE Asia. . Bull Soc Geol France , 174, 6, pp561-584, 2003
2002	2002, Pubellier, M., and F. Ego, Anatomy of an escape tectonic zone: Western Irian Jaya (Indonesia), Tectonics , 21(4), 1019, doi:10.1029/2001TC901038, 2002
2001	C. Stevens, R. McCaffrey, Y. Bock, J., Genrich, M. Pubellier , C. Subarya. 2001. Evidence for block rotation and basal shear in the world's fastest slipping continental shear zone in NW New Guinea, in S. Stein and J. Freymueller Plate Boundary Zones, AGU Geodynamic Series, 30, p. 87-99.
2001	Pubellier, M. , Rangin, C., Le Pichon X., Ego, F., Nguyen H., Nielsen, C., Rabaute, A., Tsang Hin Sun, D., Bousquet, R., 2001., Deep Offshore Tectonics of South East Asia (DOTSEA) ; a synthesis of deep marine data in SouthEast Asia. Exxon-Conoco-Unocal-ENS Consortium Final Report, 88p.
2001	Pubellier C. et Pubellier M. Tectonique des plaques sous MGE. Regards sur Geomedia . N°4, Jan-Fev. 2001, p. 2-3
2000	Rangin C., M. Pubellier , Late Cenozoic reconstructions in SE Asia ; new GPS and tomographic constraints. American Assoc. of Petrol. Geol. Annual Meeting, Oct. 15-18 2000, Bali, Indonesia
2000	M. Pubellier , F. Garcia, A. Loevenbruck, J. Chorowicz. Recent deformation at the junction between the Visayas and the North Luzon blocks, from ERS-1 images. The Island Arc , J. Yumul (ed), 9, n°4, 599-611
1999	Pubellier, M. , Bader, A.G., Deffontaines, B., Rangin, C., Quebral, R., Upper plate deformation induced by subduction of a volcanic arc : the Snellius Plateau (Molucca Sea, Indonesia and Mindanao Philippines). Tectonophysics , 304, 345-368.
1999	Pubellier, M. , Deffontaines, B., Chorowicz, J., Rudant J.P., Permana, H., Active denudation morphostructures from SAR ERS-1 images (SW Irian Jaya). Int Jour. of Remote Sensing , Vol. 20, N°4, 789-800

1998	Chamot-Rooke, N., Le Pichon X., Rangin, C., Huchon, P., Pubellier, M. , Vigny, C., Walpersdorf, A., Sundaland Motion in a global reference frame detected from GEODYSSSEA GPS measurements: implications for relative motions at its boundaries with the Australian -Indian plate and the South China block, GEODYSSSEA Final Report, P. Wilson & G.W. Michel (eds.) GFZ Scientific Technical Report, Commission of the European Community, EC. Contract C11*CT93-0337, 1998
1997	Findlay, R. H. Arumba, John, Kagl, J., Nektel, S., Mosusu, N., Rangin, C., Pubellier, M. , Revision of the Markham 1:250,000 sheet, Papua New Guinea; what is the Finisterre Terrane? Hancock, G. E. (editor), Port Moresby Branch PNG geology, exploration & mining conference; proceedings, Publication Series - Australasian Institute of Mining and Metallurgy, 10/97, p. 87-93
1996	Leroy, S., Mercier de Lepinay, B., Mauffret, A., Pubellier, M. , Structure and tectonic evolution of the Eastern Cayman Trough (Caribbean) from seismic reflection data, Amer. Assoc. of Petrol. Geologists Bull. , 80, n°2, 222-247
1995	Pubellier M. , Rangin C., Rascon B., Chorowicz J., Bellon H., Active and Mesozoic processes of collage in Western and Eastern Pacific : a comparative study with implications on the NW Mexico Megashear, sp vol. "The Mesozoic of NW Mexico". Geol. Soc. of America. Bull. sp paper, 301, 111-120
1995	Chorowicz, J., Deffontaines, B., Huaman, D., Pubellier, M. , Rudant, J.P., Geomorphic objects detected by ERS-1 images in different geodynamic contexts, 2nd ERS-1 Symposium Proceedings, Space at the service of our environment, ESA SP361 , 923-929
1994	Pubellier M. , Deffontaines B., Quebral R., Rangin, C., 1994 Drainage network analysis and tectonics of Mindanao, Southern Philippines, Geomorphology , 9, 325-342
1991	Pubellier M. , Spadea P., Pouclet A., Solidum R., Desprairies A., Cambay H., Correlation of tephra in Celebes and Sulu Sea basins; constraints on geodynamics. Proc ODP Scientific Results , Vol. 124, College Station TX (Ocean Drilling Program), p. 459-465
1986	Vila JM, Boisson D, Feinberg H, Butterlin J, Laclède JM, Pubellier M. Evolution sédimentaire et structurale du bassin oligo-miocène de Trois-Rivières sur la frontière décrochante nord-caraïbe (Massif du Nord d'Haiti Grandes Antilles). Revue de Géol. Dyn. et de Géog. Phys. , Vol.27, Fasc. 3-4, p.35-44, Paris, 1986
1987	Pubellier M. , Rangin C. : Mise en évidence d'une phase cénomano-turonienne en Sonora central (Mexique). Conséquences sur les relations structurales en domaine cordilléraire et domaine téthysien. C. R. Acad. Sci. Paris , t.305, série II, p. 1093-1098, 1987
1987	Pubellier M. : Relations entre domaines Cordilléraire et Mésogéen au nord du Mexique : Etude géologique de la vallée de Sahuaripa, Sonora Central. Thèse d'Université , Mémoire des Sciences de la Terre. N° 87-02, 220p., 1987
1990	Pubellier M. , Vila JM. : North Caribbean Neotectonic events: The Transhaitian faulting system, a Tertiary record of an oblique transcurrent shear zone uplifted in Hispaniola. in: J. Fourniquet and G. Pierre (editors), Neotectonics, Tectonophysics , 194, 217-236

Geological Maps and Atlases

When	Description
2004	Pubellier M., Ego F.; Geodynamic-Terrane Map of Asia, Scale 1/8000000, Edited by UNESCO-CGMW, Map and CD Rom. (Acceptée)
2004	Pubellier, M., Chan, L.S., et al., Neotectonic Map of South China and Tonkin coastal belt with explanatory notes and remote sensing signature of structural styles (acceptée)
2004	Segoufin, J., M. Munschy, M., Bouysse P., Mendel, V., Grikurov, G., & G. Leitchenkov, G., Subrahmayan C, Chand, S., M. Pubellier, M. Structural map of the Indian Ocean, Carte structurale de l'Océan Indien, scale 1: 20 000 000, 1st edition, 2004, published by CGMW and UNESCO
2002	Pubellier, M. , Rangin, C., Le Pichon X., Ego, F., Nguyen H., Nielsen, C., Rabaute, A., Tsang Hin Sun, D., Bousquet, R., 2001., Deep Offshore Tectonics of South East Asia (DOTSEA) ; a synthesis of deep marine data in SouthEast Asia. Exxon-Conoco-Unocal-ENS Consortium Maps, 27 maps.
2001	2001 Haghipour A, et al. seismotectonic map of the world, Carte sismotectonique du monde, scale 1: 25 000 000, 1st edition, 2001, published by CGMW and UNESCO
1993	1993 Pubellier M. , Quebral R., Deffontaines B., Rangin C. Neotectonic Map of Mindanao with 23-pages explanatory note. Printed and distributed by Asia Geodyn. Co. , Quezon City, Philippines.
1987	1987 Boisson D. Pubellier M. Carte Géologique D'Haiti. Echelle 1/250.000, Feuille NE.(Cap Haïtien), IMAGEO-CNRS , Univ. P.& Curie (France)

1987	1987 Boisson D. Pubellier M. Carte Géologique D'Haiti. Echelle 1/250.000, Feuille NO.(Môle Saint Nicolas), IMAGEO-CNRS , Univ.P.& M. Curie (France)
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