

CURRICULUM VITAE

PERSONAL INFORMATION

First name: Mohamed
Last name: SAHNOUNI
Marital Status: married two children

Address:

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EMPLOYMENT HISTORY

1) Current position

2001 to present: Research Scientist, Center for Research into the Anthropological Foundation of Technology (**CRAFT**), Indiana University-Bloomington, USA.

2) Previous Positions

1999-2000: Posdoctoral Research Fellow, Center for Research into the Anthropological Foundation of Technology (**CRAFT**), Indiana University-Bloomington, USA.

1998-2001: Research Professor, University Rovira & Virgili, Tarragona, Spain (Quaternary Research Group, Institute for Advanced Studies), and Department of History and Geography.

1996-1997: Visiting Associate-Professor, University Rovira & Virgili, Tarragona, Spain, Department of History and Geography.

1991-1996: Lecturer, Institute of Archaeology, University of Algiers (on leave from 1991-93 & 1995-96).

1986-1991: Assistant Professor (tenured), Institute of Archaeology, University of Algiers.

1985-1986: Instructor, Institute of Archaeology, University of Algiers

3) Affiliation with Academic and Research Institutions

1999 to present: Research Associate, Anthropology Department, Indiana University-Bloomington, USA.

1998-2000: Research Fellow, Centre National de Recherches Préhistoriques, Anthropologiques et Historiques (CNRPAH), Algiers, Algeria;

1997 to present: Advisor for Graduate Students, Department of Archaeology, University of Algiers, Algeria.

AREAS OF SPECIAL INTEREST

Human evolutionary studies, Old World Archaeology, Paleoanthropology, Lithic technology & typology, Geo-Archaeology, African Prehistory, Prehistory of North African and Middle East, Prehistoric Rock Art, Plio-Pleistone stratigraphy & Biochronology.

EDUCATION

Degrees

- 1) Ph.D. Indiana University-Bloomington, (USA), 1996, Anthropology.
- 2) DOCTORAT DE 3ème CYCLE, University of Pierre & Marie Curie, (Paris, France), 1985, Quaternary Geology: Human Paleontology & Prehistory (with Honors and congratulations of the jury).
- 3) M.A. Indiana University-Bloomington (USA), 1993, Anthropology.
- 4) DIPLÔME D'ETUDES APPROFONDIES (D.E.A.), 1982, Quaternary Geology University of Pierre & Marie Curie (Paris VI) & Museum National d'Histoire Naturelle (Paris, France).
- 5) BACHELOR OF ART (BA), University of Algiers, Algeria, 1981, Archaeology.

Dissertations

Ph.D. thesis: Archaeological investigations at the Lower Palaeolithic site of Ain Hanech, Algeria, and their behavioral implications.

DOCTORAT de 3ème CYCLE thesis: L'industrie sur galets du gisement villafranchien supérieur d'Ain Hanech (Sétif, Algérie Orientale). Approche morphotechnologique.

D.E.A. (Diplôme d'Etudes Approfondies) thesis: Débitage des éclats de la grotte acheuléenne du Lazaret, Nice, Alpes Maritimes.

B.A. thesis: Étude typologique des bifaces du gisement acheuléen de Tihodaine, Sahara Algérien.

LANGUAGES

Arabic: native language

English: speak fluently and read/write with proficiency

French: speak fluently and read/write with high proficiency

Spanish: speak, read, and write with basic competence

Catalan: read

UNIVERSITY TEACHING EXPERIENCE

1996-2001: University Rovira I Virgili, Spain, Graduate Program in Archaeology:

Lithic technology

African Prehistory

1999-2000: Indiana University, Department of Human Evolutionary Studies

Prehistory of North Africa & Near East (2nd Semester, Graduate seminar).

1995-1996: Indiana University Bloomington, Department of Anthropology,

Human Origins & Prehistory (1st & 2nd Semester)

1985 to 1994: Department of Archaeology, University of Algiers

Universal Prehistory

Introduction to Prehistoric Archaeology

Field School in Prehistoric Archaeology

Archaeology: Methods and Theories

Prehistory of Europe

Lithic Analysis Laboratory

Prehistory of the Maghreb

Lithic Analysis Laboratory

Evolution of human dwelling in Prehistory (Graduate seminar)

Methods & Approaches to Lithic Analysis (Graduate seminar)

RESEARCH GRANTS

2005: National Science Foundation, Washington DC, Survey for Pliocene stone tools and fossils in North Africa: Explorations into Ain Boucherit, Beni Foudha Basin, Northeastern Algeria;

2005: The L.S.B. Leakey Foundation, San Francisco, California, Fieldwork into the Pliocene Archaeology of Ain Boucherit, Algeria, North Africa;

2004: Stone Age Institute (Bloomington, Indiana), grant for research into Early Hominid occupation and adaptation in North Africa;

2001: National Geographic Society, Committee for Exploration and Research (Washington D.C.) for Paleoanthropological Investigations at Ain Hanech, northeastern Algeria.

2001: The LSB Leakey Foundation (San Francisco, California), Paleoanthropological Investigations at Ain Hanech, northeastern Algeria.

1999: CRAFT Research Center, Indiana University Bloomington. Grant for investigating human adaptation in the Middle Pleistocene in the Sahara.

1997: Wenner-Gren Foundation For Anthropological Research, Inc (New York USA), grant for continuing archaeological investigations at Ain Hanech, Algeria.

1994: CRAFT Research Center, Indiana University, USA. Grant for research at Ain Hanech.

1993: L.S.B. Leakey Foundation, Oakland, California, USA. Grant for continuation of new archaeological investigations at Ain Hanech, Algeria.

1993: African Studies Program, Indiana University Bloomington (USA), grant for travel to Algeria for Archaeological investigations at the Oldowan site of Ain Hanech.

1992: L.S.B. Leakey Foundation, Oakland, California (USA). Grant for new archaeological investigations at the site of Ain Hanech, Algeria.

1987-1991: Institute of Archaeology, University of Algiers. Grant for archaeological excavations at Taza Cave site, Eastern Algeria.

1986: Vice Rectorate for Scientific Research and Graduate School, University of Algiers. Grant for travel to Kenya for lithic comparative analysis between Ain Hanech and Olduvai assemblages.

RESEARCH PROJECTS

2005: Principal Investigator of "Survey for Pliocene stone tools and fossils in North Africa: Explorations into Ain Boucherit, Beni Foudha Basin, Northeastern Algeria.

2001-current: Principal Investigator of the multidisciplinary research project: Early Hominid occupation and adaptation in North Africa;

2003: Director of Paleoanthropological investigations at Ain Hanech, Algeria.

2002: Director of Paleoanthropological investigations at Ain Hanech, Algeria.

1999: Director of Paleoanthropological investigations at Ain Hanech, Algeria.

1998: Director of continuing Paleoanthropological investigations at the Oldowan site of Ain Hanech, Algeria.

1997-1998: Oldest human occupation in Europe, Atapuerca (Spain) (in collaboration with Atapuerca research Group.)

1995-1996: Analysis of Ain Hanech archaeological remains (Algeria).

1994-1995: Experimental Archaeology research project: Paleolithic Lithic Technology and Site Formation Processes

1993: Director of continuation of new archaeological investigations at the Lower Palaeolithic site of Ain Hanech, Algeria.

1992: Director of new archaeological investigations at the Lower Palaeolithic site of Ain Hanech, Algeria.

1987-1991: Co-Director of excavations at the Middle and Upper Palaeolithic site of Taza cave, Jijel, Algeria.

1989-1990: Encyclopedia of Archaeology, University of Algiers.

1986: Co-Director of excavations at the Late Palaeolithic and Neolithic site of Hamam Dhalaa (Hodna, Algeria).

1986: Kenya. Lithic analysis of Oldowan material from Olduvai (Tanzania).

1983-1984: Preliminary archaeological survey in Sétif basin, Algeria.

CONSULTING AND REVIEWS

The L.S.B. Leakey Foundation, San Francisco, California, USA (Anthropological Granting Agency);

Current Anthropology (peer review anthropological journal, USA);

Journal of Human Evolution (peer review journal, USA).

PUBLICATIONS

Papers

(In Press). Hadjouis D. and **M. Sahnouni**. *Pelorovis howelli* nov. sp. (Mammalia, Artiodactyla): A new bovine from the Plio-Pleistocene locality of El-Kherba, Ain Hanech, Northeastern Algeria. *Geobios*.

(In Press). **Sahnouni M.** L'assemblage lithique d'Ain el-Hanech: Une variante nord africaine du Complexe Industriel Oldowayen. *Libyca*.

(In Press). Medig M., D. Hadjouis, **M. Sahnouni**, A. Derradji & R. Sala. Peuplement préhistorique et activités paléoéconomique dans la région de Taza, Jijel, Algérie. *Archeologia*.

2004: **Sahnouni M.**, D. Hadjouis, Derradji A., A. Canals, J. Ver der Made, M. Medig, H. Belahrach, Z. Harichane, & M. Rabhi. On the earliest hominid occupation of North Africa. A response to Geraads et al. *Journal of Human Evolution*, 46: 763-775.

2003: Meier, R. J., **M. Sahnouni**, M. Medig and A. Derradji. Human Skull from the Taza Locality, Jijel, Algeria. *Anthropologischer Anzeiger*, 61(2): 129-140.

2003: **Sahnouni M.** Le bassin sétifien, berceau des premiers hommes en Afrique du Nord. *Les Dossiers d'Archéologie*, 282: 4-9.

2002: **Sahnouni M.**, D. Hadjouis, Derradji A., A. Canals, J. Ver der Made, M. Medig, H. Belahrach, Z. Harichane, & M. Rabhi. Further research at the Oldowan site of Ain Hanech, northeastern Algeria. *Journal of Human Evolution.*, 43: 925-937.

2001: Carbonell E., Mosquera M., Ollé A., Rodríguez X.P., **Sahnouni M.**, Sala R., & Vergès J.M. Structure morphotechnique de l'industrie lithique du Pléistocène inférieur et moyen d'Atapuerca (Burgos, Espagne). *L'Anthropologie* 105 : 259-280.

1999: Carbonell E., G. A. MaDolores, Mallol C., Mosquera M., Ollé A., Rodríguez X.P., **Sahnouni M.**, Sala R. & J.M. Vergès. The TD6 level lithic industry from Gran Dolina, Atapuerca (Burgos, Spain): production and use. *Journal of Human Evolution* 37 (3): 653-693.

1998: **Sahnouni M.** and J. de Heinzelin. The site of Ain Hanech revisited: New investigations at this Lower Pleistocene archaeological site in northeastern

Algeria. *Journal of Archaeological Science*, 25 (11): 1083-1101.

1997: **Sahnouni M.**, K. Schick and N. Toth. An experimental investigation into the nature of faceted limestone "spheroids" in the Early Palaeolithic. *Journal of Archaeological Science* 24 (8): 701-713.

1996: **Sahnouni M.**, J. de Heinzelin and Y. Saoudi. Recent investigations at the Oldowan site of Ain Hanech, Algeria. *Comptes Rendus Académie des Sciences*, Paris 323, Série IIa: 639-644.

1996: Medig M., R. Meier, **M. Sahnouni** and A. Derradji. Discovery of a human skull from the Iberomaurusian levels of Taza cave I, Jijel, Algeria. *Comptes Rendus Académie des Sciences*, Paris 323, Série IIa: 825-931.

1996: Ellison, J., P. Robertshaw, D. Gifford-Gonzalez, R.J. McIntoch, A. Stahl, C. R. DeCorse, L. H. Robbins, S. Kent, A. Nagaba-Waye, **M. Sahnouni** and A. K. Segobye. The future of African Archaeology. *African Archaeological Review* 13 (1): 5-34.

1994: **Sahnouni M.**, A. Derradji, M. Medig. Report on new archaeological investigations at Ain Hanech, Algeria. *Recherches*, University of Algiers: 66-71.

1993: **Sahnouni M.** Étude comparative des galets taillés polyédriques et subsphériques des gisements d'Ain Hanech (Algérie) et d'Olduvai (Tanzanie). *L'Anthropologie* 97(1): 51-68.

1987: **Sahnouni M.** and D. Hadjouis. Découverte de nouveaux documents osseux et lithiques à Ain Hanech (Sétif, Algérie Orientale). *Bulletin de la Société Préhistorique Française*, 84: 133-134.

1985: **Sahnouni M.** Reconnaissance d'une chaîne opératoire, expliquant l'obtention des formes polyédriques et subsphériques, dans l'industrie sur galets du gisement villafranchien supérieur de Ain Hanech (Sétif, Algérie Orientale). *Comptes Rendus Académie des Sciences*, Paris, 1985, T.301, série II, 5: 355-358.

1983: **Sahnouni M.** Etude de la complémentarité des angles d'éclatement dans le débitage des éclats. *Cahiers Noirs*, 1: 65-69.

Chapters in edited volumes and conference proceedings

(In Press). Les plus vieilles traces d'occupation humaine en Afrique du Nord. In (H. de Lumley, Ed.) « *Cultures, Climats et Sociétés depuis l'apparition de l'Homme jusqu'au Néolithique*. Geoscience, Académie des Sciences, Paris.

(In Press). Le registre Nord africain de l'adaptation des premiers humains :

Temoignage de l'Ain el-Hanech, Algerie. In Y. Coppens & J. Guilaine, Eds) "*Le Peuplement ancien de l'Algerie: Sa place dans le contexte mediteraneen*", College de France, Paris

(In Press). **Sahnouni M.** The North African Early Stone Age and the sites at Ain Hanech, Algeria. In (N. Toth & K. Schick, Editors), *The origins of human technology: studies into the Early Stone Age (Oldowan)*. Bloomington: CRAFT Press

2005: **Sahnouni M.** Point des connaissances du Paléolithique ancien d'Afrique du Nord et la question de la première occupation humaine au Maghreb. In (Sahnouni, Editor). *Le Paleolithique en Afrique : L'Histoire la plus longue*, Paris : ArtCom-Errance, pp.99-128

(In Press). Carbonell E., **M. Sahnouni** & R. Sala. Evidence of progress in the European Palaeolithic technological modes. In (E. Aguire, Editor) *Evolution of Human Family. State of the Art*. Madrid: Foundation Ramon Areces.

2000: Hadjouis D., J.N. Vignal, M. Medig, **M. Sahnouni** & A. Derradji. Biodynamique cranio-faciale, paléopathologie et reconstitution faciale d'un crâne ibéromaurusien (grotte de Taza, Jijel, Algérie). In *Identité humaine en question: nouvelles problématiques et nouvelles technologies en Paléontologie humaine et en Paléoanthropologie biologique*, (Andrieux Ph., Hadjouis D. & Dambricourt-Malassé A. Eds) Paris : Artcom, pp : 205-220.

2000: **Sahnouni M.**, D. Hadjouis & E. Carbonell. Sites Pré-Acheuléen nord-africains et leurs implications paléoanthropologiques, a partir des références du site pléistocène inférieur de l'Ain Hanech (Sétif, Algérie). In *Identité humaine en question: nouvelles problématiques et nouvelles technologies en Paléontologie humaine et en Paléoanthropologie biologique*, (Andrieux Ph., Hadjouis D. & Dambricourt-Malassé A. Eds) Paris : Artcom, pp : 366-382.

1996: **Sahnouni M.** Saharan rock art. *Egypt in Africa*. (T. Celenko, editor). Indianapolis: Indianapolis Museum of Art & Indiana University Press, pp.28-30.

1995: **Sahnouni M.** A new look at the Lower Palaeolithic site of Ain Hanech, Algeria. *Human Evolution in Europe and the Atapuerca Evidence*, J.M Bermudez, J.L.Arsuaga, and E.Carbonell (Eds): Valladolid: Junta de Castilla Y Leon, Vol. 2: 345-356.

1993: **Sahnouni M.** Place du gisement de Ain Hanech parmi les plus vieux sites archéologiques Est-Africains et méditerranéens. *Actes du Colloque International sur la Ville de Sétif*, 9-11 December. 1990, Algeirs: Agence Nationale d'Archéologie et des Monuments Historiques.

Abstracts published in journals and conferences:

2002: **Sahnouni M.**, D. Hadjouis, S. Abdesselam, A. Ollé, J. M. Verges, A. Derradji, H. Belahrech, and M. Medig. El-Kherba: a Lower Pleistocene butchery site in northeastern Algeria. Abstracts of the Annual Meeting of the Paleoanthropology Society, Denver, Colorado, *Journal of Human Evolution* 42 (3): A31.

2001: **Sahnouni M.**, Derradji A., D. Hadjouis, A. Canals, M. Medig, H. Belahrach, S. Abdesselam, Z. Harichane & M. Rabhi. Continuing investigations in the Early Pleistocene locality of Ain Hanech, northeastern Algeria. Abstracts of the Annual Meeting of the Paleoanthropology Society, Kansas City, *Journal of Human Evolution* 40: A18-A19.

1995: Meier R. J. and **M. Sahnouni**. Paleoanthropological discoveries at the Taza Locality, Algeria. Part I. Taza Skull I. *American Journal of Physical Anthropology* Supplement 20, p. 151,

1995: **Sahnouni M.** The site of Ain Hanech rediscovered: New investigations at this Lower Pleistocene archaeological site in northeastern Algeria. *4th Annual Meeting of the Palaeoanthropology Society*, March 28-29, 1995, Oakland, California, Abstract.

1995: **Sahnouni M.** The Oldowan character of Ain Hanech stone artifact assemblage. *10th Pan African Congress of Prehistory and Related Studies*, June 18 to 23, 1995, Harare, Zimbabwe, Abstract.

1994: **Sahnouni M.** New archaeological investigations at the Lower Palaeolithic site of Ain Hanech, Algeria. *12th Biennial Conference of the Society of Africanist Archaeologists*, Indiana University Bloomington, April 28-May 1, 1994. Abstract, Nyame Akuma, 42 : 55.

1992: **Sahnouni M.** New look at the Lower Paleolithic site of Ain Hanech, Algeria. Abstracts of the *11th Biennial Conference of the Society of Africanist Archaeologists*, UCLA, Los Angeles, California, USA.

Authored and edited books

a) Authored and co-authored:

2003: Derradji A., M. Medig & **M. Sahnouni**. *Algérie, deux millions d'années d'Histoire. Les premiers habitants*. Algiers: Oscar-Graphic. (Book for the exhibition held in the Natural History Museum of Angers, France from October 18, 2003- February, 29, 2004).

1998: **Sahnouni M.** *The Lower Palaeolithic of the Maghreb: Excavations and*

Analyses at Ain Hanech, Algeria. Cambridge Monograph in African Archaeology # 42. British Archaeological Reports Series (S689). Oxford: Archaeopress (ISBN 086054 875 9). **Reviewed by: Moncel M.H. (2000) in *L'Anthropologie* 104 (4): 570-570; Straus L.G. (1999) in *Journal of Anthropological Research* 55 (1): 174-176; and Sinclair A. (1998) in *Antiquity* 72: 440-440.**

1990: **Sahnouni M.** *Prehistory* (Text-book in Arabic). Algiers: Office des Publications Universitaires (2nd edition published in 1999).

1987: **Sahnouni M.** *Étude de l'industrie sur galets du gisement villafranchien d'Ain Hanech*. Algiers: Office des Publications Universitaires.

a) Edited:

2005: **Sahnouni M.** (Editor) *Le Paleolithique en Afrique: L'Histoire la plus longue* Paris: Artcom/Errance, with Preface by Professor F.C.Howell., 259p., ISBN 2-8777-297-X

SYMPOSIA AND SCIENTIFIC MEETINGS

Scheduled: (October 27-31, 2005): "*Approaches to the Earliest Stone Age*" Stone Age Institute, Bloomington, Indiana

September 2004: "*Climates, cultures and societies in prehistoric times, from the appearance of Hominids until the Neolithic*" Inter-academic symposium, 13-16 September 2004, French Academy of Sciences, Paris, France;

November 2003: "*Le Peuplement ancien de l'Algérie. Sa place dans le contexte méditerranéen*", Collège de France, Paris (Professors Y. Coppens & J. Guilaine organizers, Collège de France, Paris) ;

Mars 2002: Annual Meeting of the Paleoanthropology Society, Denver, Colorado, USA.

Mars 2001: Annual Meeting of the Paleoanthropology Society, Kansas City, USA.

October 1999: "*The oldest human occupation in the Mediterranean basin*". University Rovira & Virgili, Tarragona, Spain.

August 1999: Symposium on "*The hominization process in Africa. Environmental change and early human evolution, between 3 million years and 1 million years ago*", INQUA Congress in Durban, South Africa.

May 1999: « *Identité humaine en question, nouvelles problématiques et nouvelles technologies en Paléontologie Humaine et en Paléanthropologie Biologique* », Créteil, Val de Marne (France), 27, 28 & 29, May 1998.

1998: "*Prehistoric Iberia: Genetics, Anthropology and Linguistics*". Fundación de Estudios Genéticos y Lingüísticos, Madrid 16 & 17 November 1998.

1998: International Symposium "*Evolution of Human Family. State of the Art*", Foundation Ramon Areces, Madrid 11-13 March 1998.

1996: International Union of Prehistoric and Protohistoric Sciences (UISPP), Forli, Italy.

1995: 4th Annual Meeting of the Paleanthropology Society, Oakland, California

1994: 12th Conference of the Society of Africanist Archaeologists (SAFA), Indiana University Bloomington.

1993: Journées d'Archéologie Algéro-Italienne, University of Algiers, Algeria.

1992: 11th Conference of the Society of Africanist Archaeologists (SAFA), University of California Los Angeles, Los Angeles.

1992: Conference on "*Human Evolution and the Atapuerca evidence*", Valladolid, Spain.

1990: Colloque International sur la ville de Sétif, Sétif, Algeria.

1988: 2ème Journée d'Archéologie algérienne, Bejaia, Algeria.

1987: 1ère Journée d'Archéologie algérienne, Tipaza, Alegria.

1986: Colloque d'Archéologie, University of Oran and Anthropology Research Unit.

1986: Conference on Prehistoric rock art of the Tassili Najjer, Djanet, Algeria.

1982: 1er Congrès International de Paléontologie Humaine, Nice, France.

1982: Colloque sur le Villafranchien Méditerranéen, Université de Lille, France.

UNIVERSITY ADMINISTRATION EXPERIENCE

1985-1987: Head Department of General Studies, Institute of Archaeology, University of Algiers; Algeria;

1989-1991: Deputy Director for Academic Affairs, Institute of Archaeology, University of Algiers, Algeria.

ADVISORS, ADVISEES, AND THESES JURY

Advisors

Lionel Balout (deceased), Professor Emeritus, Mueum National d'Histoire Naturelle, Paris, France;

Henry de Lumley, Professor Emeritus, Mueum National d'Histoire Naturelle, Paris, France;

Nicholas Toth, Professor, Department of Anthropology, Indiana University Bloomington, USA;

Kathy Schick, Professor, Department of Anthropology, Indiana University Bloomington, Indiana, USA.

Advisees

Samira Amrani, (PhD degree), Department of Archaeology, University of Algiers; Algeria;

Wahiba Harfouche, (Master degree), Department of Archaeology, University of Algiers (thesis defended on June 2003);

Merouane Rabehi (Master degree), Department of Archaeology, University of Algiers, Algeria (defense scheduled for late 2004);

Zouheir Harichane (Master degree), Deaprtment of Archaeology, University of Algiers, Algeria;

1985-1994: Advisor of several BA Honor Theses in Archaeology, University of Algiers.

Invited to PhD & Master theses defense jury

University of Rovira i Virgili, Tarragona, Spain:

February 2003: J.M. Verges (PhD thesis)

22 December 1997: José Maria Gabarró (PhD thesis)

16 October 1997: Jose Pedro Rodriguez (PhD thesis).

29 September 1997: Robert Sala i Ramos (PhD thesis)

June 1997: Carolina Mallol (Master thesis)

June 1997: Miassa Aimene (Master thesis)

February 1997: Joan Bofarull i Solé (Master thesis)

Institut National Agronomique Paris-Grignon, University of Paris, France

31 May 1999: Farid Sellami (PhD thesis)

INVITED LECTURES

2003: University of Algiers, Algeria.

1998: Institute of Archaeology, University of Rovira i Virgili, Tarragona, Spain.

1997: University of Bordeaux I, Institut de Préhistoire et de Géologie du Quaternaire, Bordeaux, France.

1996: University Rovira & Virgili, Tarragona, Spain.

1996: CRAFT Research Bag Lunch Series, Indiana University Bloomington.

1991: CRAFT Research Bag Lunch Series, Indiana University Bloomington.

1990: University of Barcelona, Tarragona Campus, Spain.

1987: University of Constantine, Algeria.

1986: University of Oran, Algeria.

1985: Institute of Human Paleontology, Paris, France.

FELLOWSHIPS

1996-1997: Sabbatical Grant from the Spanish Ministry of Education and Science, for teaching and research at the University of Tarragona, Spain.

1996: Associate Instructor Fellowship, Department of Anthropology, Indiana University Bloomington (USA).

1995: Grants for Visiting-Scholar, Autonomous Government of Catalunya, Barcelona, Spain.

1995: Research and Graduate School, Indiana University Bloomington (USA).

1995: Associate Instructor Fellowship, Department of Anthropology, Indiana University Bloomington (USA).

1994: Centre national de la Recherche Scientifique (CNRS), France. Grant for visitor exchange at the "Laboratoire d'Afrique Orientale", Meudon, France.

1994: Research and Graduate School, Indiana University Bloomington (USA).

1993: Wenner-Gren Foundation for Anthropological Research, New York (USA).
Grant for Visitor Exchange at Indiana University, Bloomington, USA.

1993: Research and Graduate School, Indiana University, Bloomington (USA).

1992: Wenner-Gren Foundation for Anthropological Research, New York (USA).
Grant for Visitor Exchange at Indiana University, Bloomington, USA.

1992: Skomp Fellowship, Indiana University Bloomington (USA).

1992: Research and Graduate School, Indiana University, Bloomington (USA).

1991: Wenner-Gren Foundation for Anthropological Research, New York (USA).
Grant for Visitor Exchange at Indiana University, Bloomington, USA.

1991: Skomp Fellowship, Indiana University Bloomington (USA).

1991: Research and Graduate School, Indiana University, Bloomington (USA).

1989: Vice-Rectorate for Scientific Research, University of Algiers. Grant for
short training in CSIC, Madrid, Spain.

1985: Ministry of Higher Education, Algeria. Grant for graduate studies at
University of Paris, France.

1984: Ministry of Higher Education, Algeria. Grant for graduate studies at
University of Paris, France.

1983: Ministry of Higher Education, Algeria. Grant for graduate studies at
University of Paris, France.

1982: Ministry of Higher Education, Algeria. Grant for graduate studies at
University of Paris, France.

1981: Ministry of Higher Education, Algeria. Grant for graduate studies at
University of Paris, France.

FIELD WORK AND LABORATORY TRAINING

Remote sensing and GIS, Anthropological Center for Training in Global Change,
Indiana University, Bloomington.

Mineralogy and x-ray diffraction, Geological Sciences, Indiana University

Bloomington (USA), under the supervision of Professor Collin Harvey.

Lithic Analysis Laboratory, Institute of Humane Paleontology, Paris, France, under the supervision of Professor H. de Lumley.

Sediment Analysis, Laboratoire de Sédimentologie, University of Pierre et Marie Curie, Paris, France, under the supervision of Professor J. C. Miskovsky.

Computer Analysis Applied to Archaeology, Centre de Calcul du CNRS, Orsay, France, under the supervision of Professor F. Djindjian.

Field Work in Archaeology in France in 1979, 1980, 1981, and 1982 under the supervision of Professor H. de Lumley.

SERVICES TO COMMUNITY

2002-2003: Co-organizer of the Exhibition: The prehistoric peopling of Algeria.
2003: The Year of Algeria in France, Natural History Museum of Angers, France from October 18, 2003- February, 29, 2004)

1999: Collaboration in the Exhibition: *Homo erectus à la Conquête du Monde*, Musée de l'Homme, Place du Trocadéro, Paris, March 30th, 1999.

1987-1989: Reserve officer at the Central Museum of Army, Algeria