

CURRICULUM VITAE Aysel İbrahim KARAFISTAN (Prof. Dr)

CONTACT INFORMATION:

Kyrenia University
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Kyrenia University
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EDUCATION

1. **European Higher Diploma of Specialisation in Oceanography (1986, Maitrise Oceanographie)**
University of Liège, GeoHydrodynamical Research Unit (GHER), Liège, Belgium
2. **Ph.D. in Physics 1978**
Middle East Technical University, Ankara, Turkey
3. **M.Sc. in Physics 1972**
Middle East Technical University, Ankara, Turkey
4. **B.Sc. in Physics 1969**
Minor: Mathematics, Ankara University, Turkey

ACADEMIC EXPERIENCE (Career/Employment History)

- 2015-2016: Professor at Kyrenia University, 2016-Dean of the Faculty of Maritime Management
- 2014-2015: Professor at Near East University, Institute of Basic Sciences
- 2010-2014: Member of Higher Education and Accreditation Council, Northern Cyprus
- 2008-2010: Professor at Near East University, Faculty of Engineering
- 2000-2008: **Professor** of Canakkale Onsekiz Mart University (COMU), Faculty of Fisheries (SUF)
---Department of Fundamental Sciences and Faculty of Arts and Sciences, Department of Physics, as graduate courses lecturer
- 1999-2000: **Associate Professor (contractual)** at COMU, SUF.
- 1996-1999 **Researcher**: Contract with Ministry of Education and Professional Formation of Luxembourg Government for “ecological modelling and forecasting of the water quality of a dam”
- 1994-1996 **Researcher**: CEE 4th Framework TMR Human Mobility Research contract (CHBICT930597): for “Application of Inversion techniques to the processing and interpretation of EROS-2000 cruise data in the Western Mediterranean”: at CNRS, Laboratoire de Biogéochimie Marine, Ecole Normale Supérieure, Paris, France.
- 1988-1993 **Researcher**: Half-time contract for data reduction and processing of the European Space Project HIPPARCOS at Universität Bonn, Sternwarte, Bonn, Germany.
- 1988-1990 **Researcher**: Half-time contract with the Ministry of Environment of the Belgian Government and the University of Liège for analysing tidal and current data of the North Sea.
- 1981-1999 **Guest Research Assistant**: GHER University of Liège, Belgium (see others)
- 1979-1981: **Instructor** and 1970-1978: **Assistant** at METU Department of Physics.

Funded Research Projects:

A Europe

- 1988-1993: Sternwarte der Universität Bonn Germany,
HIPPARCOS project: astrometry and statistics of Binaries
- 1988-1999: University of Liège, Belgium: half-time assistant and contractor with the Ministry Environment (UGMM project: Study of Tides in the North Sea from long time measurement data)
- 1994-1996: European Community 4th Framework Research Fellow, (Marie-Curie: TMR Human Mobility contract no: CHBICT930597 with **CNRS, France**): Modelisation of nutrients in the Mediterranean Sea
- 1998 -1999: **NATO/CCMS Project on the Caspian Sea**: “Review of Environmental Projects of the Caspian Sea, for the Planning of Future Activities”
- 1999 -2000: **NATO/CCMS Project on the Black Sea**: “Development of an integrated Coastal Zone Management Program (INCOM) through Coastal and

Project director of projects in Turkey from 1999: Funded by

A. Scientific and Technological Research Council of Turkey (**TUBITAK**)

1. Solution of the one-dimensional bio-chemical water quality model: application to the aquatic ecosystem dynamics in a strait system (YDABAG 101Y118)
2. Ecological modelling of the physico-chemical and microbiological water quality of the Manyas Lake (YDABAG 101Y042).

B. Çanakkale Onsekiz Mart University Research Foundation (**BAP**):

1. Analysis and modelisation of water quality parameters and trace elements in the Dardanelles coastal
2. Modelisation of the physico-chemical water quality parameters and trace elements in the Dardanelles Strait
3. Modelling the Nitrogen Cycle in Re-circulating Aquaculture Systems: M.Sc. study carried in a private firm of Aquaculture in Canakkale.

RESEARCH EXPERIENCE AND INTERESTS:

Specialization

(i) main field

First specialization subject was: *relativity and theoretical astrophysics* as well as geophysics and planetary physics, including;

1. Construction of solar and lunar models (inverse modelling approach)
2. Data reduction and image processing for the astrometry and statistics of binary stars and quasars.
3. I used inversion techniques and statistical methods for the modelling of nutrients in open seas (e.g. Mediterranean) or semi-closed systems (lakes, straits etc.).
4. Direct modelling of lake ecosystems and forecasting of water quality is another research area of interest (**applied to the Manyas Bird's lake**)

Honours, Awards, Fellowships

1998 -2000: NATO/CCMS fellow for the management of the Black Sea and the Caspian Sea

1996-1999: Various Fellowships from the Ministry of Education and Professional Formation of Luxembourg Government

1994-1996: Marie-Curie Fellowship (European Community 4th Framework Research Fellow, Paris)

1966-1968: TUBITAK fellow, Ankara University

1963-64: AFS (American Field Fellowship)

Administrative responsibilities:

Çanakkale Onsekiz Mart University: Senate member (2001-2004), Faculty of Arts Administration Council (2000-2006), Head of the Fundamental Sciences Department Fisheries Faculty (2004), Head of the Çanakkale Onsekiz Mart University Research Foundation (2004)

Kyrenia University: Dean of the Faculty of Marine Management and Administration (2016-)

Selected publications

1. İbrahim-Karafistan A., 2016 – Structure and stability of primordial stars, *Turkish Journal of Physics*, 40:146-149 (online DOI: 10.3906, 2016).
2. Karafistan A., 2013 – Conceptual Modelling of Lake Manyas, Turkey, *Turkish Journal of Engineering and Environmental Science*, Vol.10-1, 127-143, 2005, Kluwer academic Publishers. (7cit, DOI: 10.39061, 2013)
3. Cavus H. and Karafistan A.İ., 2010, - On the effect of magnetic field on the low-l solar p-mode oscillations, *New Astronomy*, 15, pp. 569-574.
4. Cavus H. and Karafistan A.İ., 2010 -On the Modelling of Rotational Effects in the Lower Convective Region of the Sun, *Braz. J. Phys.*, Vol: 40 No:2, pp160-165.
5. Karafistan A. & Ormancı H. B., 2010 – Metal concentrations in *Mytilus galloprovincialis* from southern Dardanelles, Turkey, *ESAIJ*, 5(3) 201-204, June 2010.
6. Çavuş H. & Karafistan A., 2007. An MHD model applied to the lower convective region in the Sun. *Monthly Notices of the Royal Astronomical Society*, 380, 142-148.
7. Karafistan A. & Arik-Çolakoglu F. 2004 – Physical, Chemical and Microbiological Water Quality of the Manyas Lake', *Mitigation and Adaptation Strategies for Global Change*, 00, 1-17, (Kluwer academic Publishers).
8. Denis-Karafistan A., Martin J.-M., & Beckers J.-M. 2002– Spatial and temporal phosphate distributions in the Mediterranean Sea., *Deep-Sea Research I*, 45, 67-82.
9. Denis-Karafistan A., Martin J.-M., Minas H., Brasseur P., Nihoul J., & Denis C. 1998 ` Space and seasonal distribution of nitrates in the Mediterranean Sea derived from a variational inverse model, *Deep-Sea Research I*, 45, 387-408.
10. Denis-Karafistan A.İ. 1998 – Application of Principal Component Analysis to radio Properties of Quasars., *Astron. Nachr.* 319, 5, 319-324.
11. Denis C., Rogister Y., Amalvict M., Delire C., İbrahim A., & Munhoven G., 1997– Hydrostatic flattening, core structure, and translational mode of the inner core, *Phys. Earth Planet. Int.*, 99:195-206.
12. Denis-Karafistan A.İ., & Denis C. 1992– Déformations de la Terre et couplage noyau-manteau, In: *Géodynamique globale et Systèmes de référence. (Ed. N. Capitaine), Actes des Journées 1992, "Systèmes de référence spatio-temporels"*, Observatoire de Paris, 91-96.
13. Detal A., Collette P., Hainaut O., İbrahim-Denis A., Pospieszalska-Surdej, Schils P., Schober H.J., & Surdej J. 1992 – Photometry, Pole Orientation and Shape Parameters of the Minor Planets 624 Hektor and 43 Ariadne. *Proc. 30th Liège Int. Astroph. Symp.* June 24-26, 307-310.
14. Brosche P., Denis-Karafistan A.İ., & Denis C. 1992 – Determination of the optical and physical nature of wide visual binaries by means of two-dimensional conditional probabilities., *Astron. Nachr.* 313, 6, 341-347.
15. Brosche P., Denis-Karafistan A.İ., & Sinachopoulos P. 1992 – On the nature and kinematics of wide visual binaries., *Astron. Astrophys.*, 253, 113-118.
16. Brosche P., Ducourant C., Galas R., Geffert M., & Karafistan A. 1991. – Quasar link conditions for Hipparcos., *Astron. Astrophys.*, 245, 669-675.
17. Brosche P., Denis-Karafistan A.İ., & Sinachopoulos D., 1991– Mouvements relatifs d'étoiles doubles visuelles à grande séparation., *Actes des Journées 1991 Systèmes de référence spatio-temporels* publiés par N. Capitaine, Observatoire de Paris 6 pages.
18. Denis C., Denis-Karafistan A., & Delire C. 1991. – *Sur un modèle de référence terrestre commun à la géodésie et à la géophysique*, *Actes des Journées 1991 Systèmes de référence spatio-temporels* publiés par N. Capitaine, Observatoire de Paris, s. 116-121.
19. Hainaut O., Detal A., İbrahim-Denis A., & Surdej J. 1989 – Determination of the spin axis orientation of asteroids: inversion of photometric light curves. *Proceedings of "Asteroids Comets Meteors"*, Uppsala.
20. Denis C., Denis-Karafistan A.İ., Hinderer J. & Ronday F. 1988 – On core modes detected at Brussels and free oscillations of the North Sea., *C.R. Journées Luxbg. Géodynamique*, 68, 11-12.
21. Denis-Karafistan A.İ. 1988 – Oscillations d'inertie dans la Méditerranée Occidentale. *Bull. Soc. Roy. Liège.* 57, 517-532.
22. İbrahim A., 1987 – A study of the efficiency of some inversion techniques applied to a simple model of the Moon. *Astron. Astrophys.*, 184, 373-380.
23. İbrahim A., & Denis C., 1984 – On the inversion of solar oscillation data, In: *Theoretical Problems in Stellar Stability and Oscillations*, *Proc. Liège Int. Astroph. Symp.* 25, 270-276.
24. İbrahim A., Boury A., & Noels A., 1981 – Vibrational Stability of first-generation stars on the zero-age main sequence. *Astron. Astrophys.* 103, 390-392.
25. Denis C., & İbrahim A., 1981 – On a self-consistent representation of Earth models, with an application to the computing of internal flattening. *Bull. Géod.* 55, 179-195.
26. Denis C., & İbrahim A., 1980 – MODPOL – Programme numérique permettant de représenter des modèles terrestres, planétaires et stellaires de manière cohérente. *Bull. Inf. Marées Terr.* 83, 5236-5293.
27. İbrahim A., & Nutku Y., 1976 – Generalized Einstein Static Universe. *Gen. Relat. Grav.* 7, 949-958.