CURRICULUM VITAE

Tolga Yapıcı

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Foreign Languages. Turkish (Mother Language), Eng	filsh (nuent), German (lan), French (lan)	
Academic Interests	Academic Interests	
Space Physics, Magnetospheric Dynamics, Plasma Physics, Statistical Physics, Estima- tion Theory, Genetic Programming, Applied Mathematics, Astrophysics.		
Sport Interests	Sport Interests	
Archery, Swimming, Skiing, Tennis.		
Social Interests		
Theatre, Cinema, Outdoors.		
Middle East Technical University, Ankara, Turkey		
• Topic: "Influences of Interplanetary Magnetic Field on the Variability of Aerospace		
Media"		
• Advisor: Prof. Dr. Yurdanur Tulunay		
Middle East Technical University, Ankara, Turkey		
B.S. in Department of Physics (double major program), June 2006		
Middle East Technical University, Ankara, Turkey		
B.S. in Department of Aerospace Engineering, Jur	ne 2005	
Middle East Technical University, Ankara, Turk	tey	
Research Assistant	January 2007 - present	
Includes current Ph.D. research (Magnetospheric D Website maintainance of Department of Aerospace Computer maintainance at the Institute of Natura Website design and maintainance of Department of Responsibility for grading of the exams and home • AE261 Statics, Fall 2007	e Engineering al and Applied Sciences of Earthquake Studies	
	06531, Ankara, Turkey Phone : (+90 312) 210-4277 (+90 312) 210-3730 Fax : (+90 312) 210-7359 Mobile Phone : +90 533 221 79 00 e-mail : tyapici@metu.edu.tr tyapici@ae.metu.edu.tr tyapici@ae.metu.edu.tr tyapici@ae.metu.edu.tr tyapici@ae.metu.edu.tr Tyapici@ae.metu.edu.tr tyapici@ae.metu.edu.tr Sport Interests Sport Interests Academic Interests Archery, Swimming, Skiing, Tennis. Social Interests Theatre, Cinema, Outdoors. Middle East Technical University, Ankara, Turk M.S. in Department of Aerospace Engineering, Set • Topic: "Influences of Interplanetary Magnetic Media" • Advisor: Prof. Dr. Yurdanur Tulunay Middle East Technical University, Ankara, Turk B.S. in Department of Physics (double major prog Middle East Technical University, Ankara, Turk B.S. in Department of Aerospace Engineering, Jun Middle East Technical University, Ankara, Turk B.S. in Department of Aerospace Engineering, Jun Middle East Technical University, Ankara, Turk B.S. in Department of Aerospace Engineering, Jun Middle East Technical University, Ankara, Turk B.S. in Department of Aerospace Engineering, Jun Middle East Technical	

EU COST Action 724: Developing the Scientific Basis for Monitoring, Modeling and Predicting Space Weather, METU, Ankara, Turkey

Project Assistant

January 2005 - November 2007

Includes current M.S. research (Interplanetary Magnetic Field, Modeling of IMF By and IMF Bz dynamics and Data-driven modelling) Generating a Genetic Programming code - GETY Web Site harmonization Model running remotely by internet (via SOAP and FTP).

EU COST Action 724 Short Term Scientific Mission (STSM), Warsaw, Poland Researcher 18-23 June 2006

Implementing METU-NN model through COST 724 Web Server Help implementing any other models/databases to current Web Server Attend probable Work Bench at the Polish Academy of Science Space Research Centre if such need arises

Von Karman Institute for Fluid Dynamics, Brussels, Belgium

Trainee

June 2004 - August 2004

Plasma Flows Planet Re-Entry Simulation using experimental and numerical techniques

TUSAŞ Aerospace Industry (TAI), Ankara, Turkey

September 2003 - November 2003

Creating database for airfoils and grids Manufacturing and Research Practice

OTHERStudent Board Representative of Department of Aerospace Engineering, METU,EXPERIENCESAnkara, Turkey

Member of COSPAR

Assistant Project Engineer

Some Courses Physics TAKEN RELATED TO ASTE

TAKEN RELATED TO
FIELD OF STUDYASTR201 Astronomy I
AEE232 Thermodynamics
ASTR312 Modern Astrophysics II
PHYS334 Electromagnetic Theory
PHYS430 Statistical Thermodynamics
AEE453 Introduction to Atmospheric Sciences
AEE551 Introduction to Space Sciences
PHYS561 Magnetohydrodynamics

	Mathematics, Modeling and Data Analysis MATH253 Differential Equations PHYS209 Mathematical Methods in Physics I PHYS210 Mathematical Methods in Physics II AEE306 Numerical Methods AEE546 Computational Fluid Dynamics on Unstructured Grids EE501 Linear System Theory I EE557 Estimation Theory EE553 Optimization
Computer Skills	 Operating Systems: Unix, Linux (SuSE, Red Hat, CENTos), Windows 98/2000/XP. Languages: C, C++, Python, Java, LISP, Fortran, Unix shell scripts, HTML, PHP, MySQL. Applications: MATLAB, GNU Octave, IATEX, MS Office and OpenOffice Applications. Algorithms: Genetic Programming, Neural Networks, Optimization Algorithms, Finite Difference Methods. Others: Database Management, Website Designing.
Publications	T. Yapıcı, Y. Tulunay, 2007. Possible Influences of Interplanetary Magnetic Field on the Ionospheric Variability: A modeling approach, Advances in Space Research (submitted, 2007)
	Y. Tulunay, E. Tulunay, E. Altuntaş, T. Yapıcı, Near Earth Space Activities: A Turkish Initiative - IHY 2, Sun and Geosphere, 1, 2006
International Conference Presentations	Y. Tulunay, T. Yapıcı, E. Tulunay, Z. Kocabaş. 2007. Modeling Ionospheric and Solar Parameters using Genetic Programming Approach, IRI/COST 296 Workshop: Ionosphere - Modelling, Forcing and Telecommunications, 10-14 July 2007, Prague, Czech Republic,
	Y. Tulunay, T. Yapıcı, E. Tulunay. 2006. Further Investigation of the Possible Effects of the IMF B_z and IMF B_y components on the Ionospheric f ₀ F2 values, Third European Space Weather Week, 13- 17 November 2006, Brussels, Belgium.
	K. Stegen, J. Lilensten, A. Glover, A. Hilgers, D. Heynderickx, J. Wera, M. Messerotti, I. Stanislavska, T. Yapıcı, P. Gilles. 2006. A New Integrated European Space Weather Portal, Third European Space Weather Week, 13- 17 November 2006, Brussels, Belgium.
	T. Yapıcı, Y. Tulunay. 2006. The Probable Effects of Interplanetary Magnetic Field (on the F-layer Critical Frequency), International Symposium on Recent Observations and Simulations of the Sun-Earth System (ISROSES), 17-22 September 2006, Varna, Bulgaria.
	E. Tulunay, E. M. Warrington, Y. Tulunay, Y. Bahadırlar, A. S. Türk, R. Çaputçu, T. Yapıcı, E. T. Şenalp. 2006. Propagation Related Measurements During Three Solar Eclipses in Turkey, 10 th International Conference on Ionospheric Radio Systems & Techniques, 18-21 July 2006, London.

E. Tulunay, M. Warrington, Y. Tulunay, Y. Bahadırlar, A. S. Türk, T. Yapıcı, E. T. Şenalp, E. Altuntaş, Ö. Sarı, O. Büyükpapuşcu. 2006. COST296 WG2.2 Activity Report : Radio Propagation Measurements During the 29 March 2006 Total Eclipse Week, 4th COST 296 MCM and WG meetings, 27-29 April 2006, Neustrelitz, Germany.

Y. Tulunay, T. Yapıcı. 2006. The effects of IMF B_z on the F-layer Critical Frequency, 8^{th} COST 724 MCM and WG meetings, 27-30 March 2006, Antalya, Turkey.

Y. Tulunay, M. Messerotti, E. T. Şenalp, E. Tulunay, M. Molinaro, Y. I. Özkök, T. Yapıcı, E. Altuntaş, N. Çavuş. 2005. Neural Network Modeling in Forecasting the Near Earth Space Parameters: Forecasting of the Solar Radio Fluxes Forecasting of the Solar Radio Fluxes, COST 724 MCM, 10-13 Oct. 2005, Athens, Greece.

NATIONALT. Yapıcı, Y. Tulunay. 2006. GezegenlerarasıManyetik Alanın Kritik Frekans ÜzerineCONFERENCEEtkisi, I. Ulusal Havacılık ve Uzay Konferansı, 21-23 September 2006, METU, Ankara,PRESENTATIONSTurkey.

Yurdanur Tulunay, Tolga Yapıcı. 2006. Gezegenlerarası Manyetik Alan ve Yer'e Yakın Uzay'daki Olası Etkileri, Kayseri VI. Havacılık Sempozyumu, 12-14 May 2006, Nevşehir, Turkey.