

----- MOHAMMAD TATAR -----

Professor of Seismology
Vice President for Research and Postgraduate Education
International Institute of Earthquake Engineering and Seismology (IIEES)
P.O.Box 19395 / 3913 Tehran, Iran
TEL: (98 21)2283-1234 FAX: (98 21) 2280 3656
E-MAIL: mtatar@iiees.ac .ir
mtatar17@yahoo.com

Education

Ph.D.: (Geophysics - Earthquake Seismology)

Dissertation: Etude Seismotectonique de deux zones de collision continentale: le Zagros Central et l'Alborz (Iran), Joseph Fourier University, France, 2001.

M.Sc.: (Geophysics – Seismic Exploration)

Thesis: Determination of S-wave Velocity Using Spectral Analysis of Surface Waves, Institute of Geophysics, Tehran University, 1995.

B.Sc.: (Geology)

Department of Geology, Ferdosi University, Mashad, 1991.

Research/Teaching & Memberships

Research Interests

1. Seismotectonic of Active Regions using Local Seismic Network.
2. Aftershocks study of the Strong Earthquakes.
3. Crust and Upper Mantle Structure using Receiver Function and Surface Waves Analysis.
4. Local and Teleseismic Tomography
5. Reservoir Induced Seismicity

Recent Accomplished Projects

1. Aftershocks study of the 26 December 2003 Bam Earthquake
2. Crustal velocity structure beneath Iranian National Broadband Seismic Network using receiver function analysis
3. Seismotectonic of the Tabriz region deduced from Microearthquakes seismicity. (in collaboration with Joseph Fourier University of France)
1. Lithosphere structure of the Kopet-Dagh transect between Sarakhs and Yazd ((in collaboration with Cambridge University of England)
2. 3D structure of the Bam region based on passive seismic tomography.
3. Induced stress modeling of the Gotvand-e Olya dam reservoir.
4. Seismological aspects and aftershocks sequence study of the August 2012 Ahar-Varzaghan doublet earthquakes ($M_w=6.4, 6.3$).

Teaching

1. Advanced Seismology (for Ph.D. students of seismology)
2. Instrumental Seismology (for Ph.D. students of seismology)
3. Seismic Exploration (for M.Sc. students of seismology)
4. Theory of Elastic Waves Propagation

Membership

1. Iranian Geophysical Society, 2001- present.
2. ICTP associate member, Italy, 2011- 2017

SUPERVISING Ph.D. THESIS

Accomplished:

1. Seismicity, seismotectonics and Crustal structure of the Tabriz region, IIEES, 2007.
2. Seismicity and seismotectonics of the Southern margin of the Central Alborz, IIEES, 2010.
3. Lithosphere structure beneath the Iranian Plateau based on joint inversion of Receiver Function and Surface wave dispersion data, IIEES, 2011.
4. Lithosphere Structure of the NE Iran based on teleseismic Tomography, IIEES, 2014.
5. Induced stress modeling in the Masjed Soleyman and Gotvand Olya Dam reservoirs. IIEES 2017.
6. Seismological aspects and aftershocks sequence study of the August 2012 Ahar-Varzaghan doublet Earthquakes, IIEES 2018.
7. Deep structure of the Iranian plateau from joint inversion of receiver functions and dispersion data and gravity modeling, IIEES, 2020.
8. Seismicity and 3D crustal structure of Central Alborz, Iran Using Local Earthquake Dataset, IIEES, 2020.

SUPERVISING M.Sc. THESIS

Accomplished

1. Induce Seismicity of the Masjed Soleyman Dam, IIEES, 2009.
2. 3D structure of the Bam region based on Passive Seismic Tomography, IIEES, 2010.
3. Crustal structure of the Western Alborz from joint inversion of Receiver Function and Surface waves dispersion data, IIEES, 2011.
4. Seismicity and Seismotectonics of The Garmsar region, IIEES, 2012.
5. Seismicity and Seismotectonic of the Lut (East of Iran), IIEES, 2014.
6. Nonlinear relocation of earthquakes with $M_w > 4$ recorded at BIN network, IIEES, 2013.
7. Upper crust structure of the western Alborz, IIEES, 2012.
8. Seismological aspects and aftershocks study of the August 18, 2014 Ilam Earthquake, IIEES, 2017.
9. Seismicity and Seismotectonics of Northwest of Zagros from Local Earthquakes, IIEES, 2018.

Professional Experience

1. **August 2019:** Short visit of ICTP, Trieste, Italy.
2. **July-Aug. 2016:** Short visit of ICTP, Trieste, Italy.
3. **July-Aug. 2014:** Short visit of ICTP, Trieste, Italy.
4. **July-Aug. 2009:** Short visit of Cambridge University, Cambridge, UK.
5. **Feb. 2006:** Short visit of Cambridge University, Cambridge, UK.

6. **Sept-Oct 2004:** Short visit of Joseph Fourier University, Grenoble, France.
7. **Oct. 2003 :** IMS Technical Training Programme of the CTBTO. International Data Center (IDC), Austrian Geophysical Service (AUG), Vienna, Austria.
8. **Sept.-Nov. 2003 :** Short visit of Joseph Fourier University, Grenoble, France.
9. **July 2002- Aug. 2002 :** International Training Course on Seismology, Seismic Data Analysis, Hazard Assessment and Risk Mitigation. GeoForschungsZentrum Potsdam, Germany
10. **Nov. 2001 :** Training Course for Technical Staff. International Data Center (IDC), CTBTO, Vienna, Austria.
11. **Sept. 2001- Sept. 2004 :** Assistant professor, Head of Seismology Dept., IIEES.
12. **March 1998- June 2001 :** Ph.D. Student, Joseph Fourier University. Seismotectonic study of two continental collision zones in Iran: The Zagros and Alborz.
13. **March 1996- March 1998 :** Faculty Member, IIEES, International Institute of Earthquake Engineering and Seismology, Tehran, Iran, Partner to UNESCO and Ministry of Culture and Higher Education of Iran. Research Associate, Seismology Department. In addition to Research on seismology, Responsible for site Selection of Iranian National Seismic Network (INSN), Installing Temporary Seismic Network and Operating Seismological Instruments.
14. **Sept. 1995 - March 1996 :** Institute of Geophysics, Tehran University. Execute of Installing Semnan and North Khorasan Telemetric Seismic Networks.
15. **July 1994 - Sept. 1994 :** NIOC'S 94; Training Course on Exploration Geophysics. Sponsored by National Iranian Oil Company, Tehran, Iran.

Engineering

1. Seismicity, Seismotectonic and Seismic hazard assessment of the Shiraz Petrochemistry site
2. Design, site selection and installation, Data processing and interpretation of the Masjed Soleyman and Gotvand Olia Seismic Networks: Monitoring for Reservoir-Induced Seismicity.
3. Seismic Hazard Assessment for the South Pars Project
4. Seismicity, Seismotectonic and Seismic hazard assessment of the Emam Reza holy shrine.
5. Reservoir Induced seismicity of Masjed Soleyman Dam.
6. Seismicity and Seismotectonic of Gotvand-e Olya dam site

Administration

1. Vice President for Research and Postgraduate Education, IIEES, 2017 – Present.
2. Vice President for Research and Technology, IIEES, 2014 – 2017.
3. Director of Seismological Research Center, IIEES, 2012 – 2014.
4. Head of Seismology Department, 2010 – 2012
5. Head of Seismology Department, and responsible for the Iranian National Broad-band Seismic Network, IIEES, 2001-2004.

SELECTED ISI PUBLICATIONS:

1. **Tatar, M.**, Hatzfeld, D., Martinod, J., Walpersdorf, A., Ghafori-Ashtiany, M. & Chery, J., 2002. The present day deformation of the Central Zagros (Iran), *Geophys. Res. Lett.*, **29**, 33-1 to 33-4, doi:10.1029/2002GL015159.
2. Hatzfeld, D., **Tatar, M.**, Priestly K. & Ghafori Ashtiani M., 2003. Seismological constraints on the crustal structure beneath the Zagros Mountain belt (Iran). *Geophys. J. Int.*, **155**, 1–8.
3. **Tatar, M.**, Hatzfeld, D. & Ghafori-Ashtiany, M., 2004. Tectonics of the Central Zagros (Iran) deduced from microearthquake seismicity, *Geophys. J. Int.*, **156**, 255–266.
4. **Tatar, M.**, Hatzfeld, D., Moradi, A.S., Paul, A., 2005. The 2003 December 26 Bam earthquake (Iran), *Mw* 6.6, aftershock sequence, *Geophys. J. Int.*, **163**, 90-105.
5. Yamini-Fard F., Hatzfeld D., **Tatar M.**, and Mokhtari M., 2006. Microseismicity on the Kazerun fault system (Iran): evidence of A strike-slip shear zone and a thick crust. *Geophys. J. Int.*, **166**:1, 186-196.
6. Bayer, R., Chery, J., **Tatar, M.**, Vernant, P., Abbassi, M., Masson, F., Nilforoushan, F., Doerflinger, E., Regard, V., Bellier, O. 2006. Active deformation in Zagros-Makran transition zone inferred from GPS measurements, *Geophys. J. Int.*, **165**, 373-381.
7. Masson, F., Van Gorp, S., Chery, J., Djamour, Y., **Tatar, M.**, Tavakoli, F., Nankali, H., Vernant, P. 2006. Extension in NW Iran Driven by the Motion of the South Caspian Basin, *Earth Planet. Sci. Lett.*, **252**, 180-188.

8. Walpersdorf, A., Hatzfeld, D., Nankali, H., Tavakoli, F., Nilforoushan, F., **Tatar, M.**, Vernant, P., Chéry, J., and Masson, F., 2006. Difference in the GPS deformation pattern of North and Central Zagros (Iran), *Geophys. Journal Int.*, **167**, 1077-1088.
9. **Tatar, M.**, Jackson, J., Hatzfeld, D., and Bergman, E., 2007. The 2004 May 28 Baladeh earthquake (Mw 6.2) in the Alborz, Iran: overthrusting the South Caspian Basin margin, partitioning of oblique convergence and the seismic hazard of Tehran, *Geophys. Journal Int.*, **170**, 249–261.
10. Kaviani, A., Hatzfeld, D., Paul, A., **Tatar, M.**, Priestley, K. 2009. Shear-wave splitting, lithospheric anisotropy, and mantle deformation beneath the Arabia–Eurasia collision zone in Iran. *Earth Planet. Sci. Lett.*, **286**, 371-378.
11. **Tatar, M.**, Hatzfeld, D. 2009. Microseismic evidence of slip partitioning for the Rudbar-Tarom earthquake (Ms 7.7) of 1990 June 20 in NW Iran. *Geophys. J. Int.*, **176**, 529–541.
12. Gholamzadeh, A., Yamini-Fard, F., Hessami, K., **Tatar, M.**, 2009. The February 28, 2006 Tiab earthquake, Mw 6.0: Implications for tectonics of the transition between the Zagros continental collision and the Makran subduction zone. *J. Geodynamics*, **47**, 280-287.
13. Abbassi, A., Nasrabadi, A., **Tatar, M.**, Yaminifard F., Abbassi, M.R., Hatzfeld, D., Priestley, K., 2010. Crustal velocity structure in the southern edge of the Central Alborz (Iran). *Journal of Geodynamics*, **49**, 68–78.
14. Radjaee, A., Rham, D., Mokhtari, M., **Tatar, M.**, Priestley, K., Hatzfeld, D. 2010. Variation of Moho depth in the central part of the Alborz Mountains, northern Iran. *Geophys. J. Int.* **181**, 173–184.
15. Nissen, E., Yamini-Fard, F., **Tatar, M.**, Gholamzadeh, A., Bergman, E., Elliott, J.R., Jackson, J.A., Parsons, B., 2010. The vertical separation of main shock rupture and microseismicity at Qeshm island in the Zagros fold-and-thrust belt, Iran, *Earth and Planetary Science Letters*, **296**, 181–194.
16. Roustaei, M., Nissen, E., Abbassi, M., Gholamzadeh, A., Ghorashi, M., **Tatar, M.**, Yamini-Fard, F., Bergman, E., Jackson, J., & Parsons, B., 2010. The 25 March 2006 Fin earthquakes (Iran) - insights into the vertical extents of faulting in the Zagros Simply Fold ed Belt, *Geophys. J. Int.*, **181**, 1275–1291.
17. Hatzfeld, D., C. Authemayou, C., Van der Beek, P., Bellier, O., Lavé, J., Oveisi, O., **Tatar, M.**, Tavakoli, F., Walpersdorf, A., and Yamini Fard, F., 2010, The kinematics of the Zagros Mountains (Iran), in *Tectonic and Stratigraphic Evolution of Zagros and Makran During the Mesozoic-Cenozoic*, edited by P. Leturmy and C. Robin, *Geol. Soc. Spec. Publ.*, **330**, 19–42.
18. Paul, A., Hatzfeld, D., Kaviani, A., **Tatar, M.**, and Péquegnat, C., 2010, Seismic imaging of the lithospheric structure of the Zagros mountain belt (Iran), in *Tectonic and Stratigraphic Evolution of Zagros and Makran During the Mesozoic-Cenozoic*, edited by P. Leturmy and C. Robin, *Geol. Soc. Spec. Publ.*, **330**, 5–18.
19. Motaghi, Kh., Hessami Kh., and Tatar, M., 2010. Pattern recognition of major asperities using local recurrence time in Alborz Mountains, Northern Iran, *J Seismology*, **14**, 787–802
20. Keshvari, F., Shomali, Z.H., **Tatar, M.**, and Kaviani, A., 2011. Upper-mantle S-velocity structure across the Zagros collision zone resolved by nonlinear teleseismic Tomography, *J Seismology*, **15**, 329–339.
21. Moradi, A.S., Hatzfeld, D., **Tatar, M.** 2011. Microseismicity and seismotectonics of the North Tabriz fault (Iran), *Tectonophysics*, Vol. 506, pp 22-30.
22. Yaminifard, F., Hassanpour Sedghi, M., Gholamzadeh, A., **Tatar, M.**, Hessami, Kh., 2012. Active faulting of the southeastern-most Zagros (Iran): Microearthquake seismicity and crustal structure. *Journal of Geodynamics* **55**, 56– 65.
23. Yaminifard, F., **Tatar, M.**, Hessami, K., Gholamzadeh, A., Bergman, E.A., 2012. Aftershock analysis of the 2005 November 27 (Mw 5.8) Qeshm Island earthquake (Zagros-Iran): Triggering of strike-slip faults at the basement. *Journal of Geodynamics* **61** 138–147.
24. Sepahvand, M. R., Yaminifard, F., **Tatar, M.**, and Abbassi, M. R., 2012, Aftershocks study of the 2006 Silakhr earthquake (Zagros, Iran): seismological evidences for a pull-apart basin along the Main Recent Fault, Doroud segments. *J Seismol.*, DOI 10.1007/s10950-011-9266-3.
25. Nissen, E., **Tatar, M.**, Jackson, J.A., Allen, M.B., 2011. New views on earthquake faulting in the Zagros fold-and-thrust belt of Iran. *Geophys. J. Int.*, **186**, 928-944.
26. Rouhollahi, R., Ghayamghamian, M.R., Yaminifard, F., Suhadolc, P., and **Tatar, M.**, 2012. Source process and slip model of 2005 Dahuyeh-Zarand earthquake (Iran) using inversion of near-field strong motion data. *Geophys. J. Int.* **189**, 669–680.
27. Motaghi, K., **Tatar, M.**, and Priestley, K., 2012. Crustal thickness variation across the northeast Iran continental collision zone from teleseismic converted waves. *J Seismol.*, DOI 10.1007/s10950-011-9267-2.
28. Motaghi, K., **Tatar, M.**, Shomali, Z.H., Kaviani, A., and Priestley, K., 2012. High resolution image of uppermost mantle beneath NE Iran continental collision zone. *Physics of the Earth and Planetary Interiors* **208-209**, 38–49.
29. Tatar, M., Hatzfeld, D., Abbassi, A., Yamini Fard, F., 2012. Microseismicity and seismotectonics around the Mosha fault (Central Alborz, Iran). *Tectonophysics* **544-545**, 50-59.
30. Priestley, K., McKenzie, D., Barron, J., Tatar, M., and Debayle, E., 2012. The Zagros core: Deformation of the continental lithospheric mantle. *Geochemistry, Geophysics, Geosystems*, **13**, 11, 1-21.

31. **Tatar, M.**, Nasrabadi, M., 2013. Crustal thickness variations in the Zagros continental collision zone (Iran) from joint inversion of receiver functions and surface wave dispersion. *J. Seismology*, 17:1321-1337.
32. Nissen, E., Jackson, J., Jahani, S., **Tatar, M.**, 2014. Zagros "phantom earthquakes" reassessed — the interplay of seismicity and deep salt flow in the Simply Folded Belt. *Jour. Geophys. Res.*, DOI: 10.1002/2013JB010796.
33. Motaghi, K., **Tatar, M.**, Priestley, K., Romanelli, F., Doglioni, C., & Panza, G. F., 2015. The deep structure of the Iranian Plateau. *Gondwana Research*, 28(1), 407–418.
34. Elliott, J., Bergman, E., Copley, C., Ghods, A., Nissen, E., Oveisi, B., **Tatar, M.**, Walters, R., and Yaminifard, F., 2015. The 2013 Mw 6.2 Khaki-Shonbe (Iran) Earthquake: Insights into seismic and aseismic shortening of the Zagros sedimentary cover. *Earth and Space Science* 2 (11), 435-471.
35. Motaghi, K., Shabanian, E., **Tatar, M.**, Cuffaro, M., Doglioni, C., 2017. The south Zagros suture zone in teleseismic images. *Tectonophysics*, 694, 292-301.
36. Ebrahimi, M.R., **Tatar, M.**, Aoudia, A., Guidarelli, M., 2018. Loading effects beneath the Gotvand-e Olya Reservoir (South-west of Iran) deduced from ambient noise tomography. *Geophys. J. Int.*, 212, 229-243.
37. Momeni, S.M., **Tatar, M.**, 2018. Mainshocks/aftershocks study of the August 2012 doublet earthquakes on Ahar-Varzaghan complex fault system (NW Iran). *Physics of the Earth and Planetary Interiors*. 283, 67-81.
38. Momeni, S.M., Aoudia, A., **Tatar, M.**, Twardzik, C., Madariaga, R., 2019. Kinematics of the 2012 Ahar-Varzaghan complex earthquake doublet (Mw6.5 and Mw6.3). *Geophys. J. Int.*, **217**, 3, 2097-2124.
39. Kianimehr, H., Kissling, E., Yaminifard, F., **Tatar, M.**, 2018. Regional minimum 1-D P-wave velocity model for a new seismicity catalogue with precise and consistent earthquake locations in southern Iran. *J. Seismology*, 22, 1529-1547.
40. SoltaniMoghadam, S., **Tatar, M.**, and Komeazi, A., 2019. An improved 1-D crustal velocity model for the Central Alborz (Iran) using Particle Swarm Optimization algorithm. *Physics of the Earth and Planetary Interiors*, in press.
41. Mahmoodabadi, M., Yaminifard, F., **Tatar, M.**, Kaviani, A., Motaghi, Kh., 2019. Upper-mantle velocity structure beneath the Zagros collision zone, Central Iran and Alborz from nonlinear teleseismic tomography. *Geophys. J. Int.*, **218**, 1, 414–428.
42. Namvaran, M., **Tatar, M.**, Motavalli-Anbaran, S.H., 2020. Imaging the 2–D crust and upper mantle structure of the Iranian plateau resolved by potential field and seismic data, . *Physics of the Earth and Planetary Interiors*, 300.
43. Mahmoodabadi, M., Yaminifard, F., **Tatar, M.**, Kaviani, A., 2020. Shear wave velocity structure of the upper-mantle beneath the northern Zagros collision zone revealed by nonlinear teleseismic tomography and Bayesian Monte-Carlo joint inversion of surface wave dispersion and teleseismic P-wave coda, *Physics of the Earth and Planetary Interiors*, 300.
44. Maleki Asayesh, B., Zafarani, H., **Tatar, M.**, 2020. Coulomb stress changes and secondary stress triggering during the 2003 (Mw 6.6) Bam (Iran) earthquake, *Tectonophysics*, 775.

SELECTED RESEARCH PUBLICATIONS:

45. Moradi, A.S., **Tatar, M.**, Hatzfeld, D., and Paul, A., 2009. Crustal velocity model and fault mechanism of the Tabriz strike-slip zone, *Geosciences*, Vol. 70, pp 140-153.
46. Ilaghi H., Yaminifard, F., **Tatar, M.**, 2010. Aftershocks analysis of the 25 March 2006 Fin earthquakes, Mw 5.9 (Zagros – Iran). *Iranian Journal of Geophysics*, 4, 17-32.
47. **Tatar, M.**, Ebrahimi M.R., and Yamini Fard F. 2011. Induced Seismicity in Masjed Soleyman Reservoir (Southwest of Iran), *Geosciences*, 80, 95-102.
48. Ebrahimi, M.R., and **Tatar, M.**, 2011. Investigation of the stress heterogeneities using b-value in Reservoir induced seismicity in the Masjed Soleyman dam area (south west of Iran), *Geosciences*, 20, 78, 105-110.
49. Ilaghi, H., Yaminifard F., and **Tatar, M.**, 2011. Upper crust seismic structure in the Fin region (Zagros-Iran), *Space and Earth Physics*, 37,2, 57-69.
50. Ebrahimi, M.R., and **Tatar, M.**, 2012. Fractal Distribution of Induced Seismicity in Masjed Soleyman Dam Site (South West of Iran). *Space and Earth Physics*, 38, 2, 15-27.
51. Jeddi, Z., **Tatar, M.**, and Saeedi Razavi, B., 2013. Three Dimensional Structure of the Bam region from Local Earthquake Tomography. *Geosciences*, 22, 88, 31-40.
52. Mosavian, S., and **Tatar, M.**, 2013. Crustal structure of the Western Alborz by joint inversion of receiver function and surface wave dispersion curve. *Geophysics*, 7, 4, 81-94.
53. **Tatar, M.**, Momeni, S.M., and Yaminifard, F., 2014. Microseismicity and seismotectonics of the Garmsar region. *Geosciences*, 24, 94, 289-298.
54. Pourbeyranvand S., and **Tatar, M.**, 2015. Tectonic stress variation in the Zagros using inversion of earthquake focal mechanisms. *Geosciences*, 24, 95, 115-122.

55. Ansari, S., Yaminifard, F., and **Tatar, M.**, 2015. Moment Tensor solution of the Central-Western Alborz (Iran) earthquakes based on regional data. *Geosciences*, 24, 95, 359-368.
56. Mohammadi pour, Z., Yaminifard, F., and **Tatar, M.**, 2016. Upper crust structure of the Eastern Zagros from local earthquake tomography. *Geosciences*, 25, 98, 67-72.
57. Ebrahimi, M.R., **Tatar, M.**, 2017. Weight induced-stress of the Gotvand-e Olya reservoir on the Golestan Fault. *Geosciences*, in press.

SELECTED CONFERENCE PAPERS:

1. **Tatar M.**, Hatzfeld D., Priestley K., Ghafori-Ashtiany M., "Crustal Structure of the Central Zagros mountains of Western Iran", AGU Meeting, San Francisco, 2000.
2. **Tatar M.**, Walpersdorf A., Hatzfeld, D., Martinod J., Ghafori-Ashtiany M., Chery J. "Present-day deformation of the central Zagros from GPS measurements", EGS Meeting, Nice, France, 2002.
3. **Tatar M.**, Hatzfeld D., Walpersdorf A., Priestley K., Ghafori-Ashtiany M., Martinod J., Chery J., "Structure and Kinematics of the Central Zagros (Iran)", AGU Meeting, San Francisco, 2002.
4. Hatzfeld D., **Tatar M.**, Yamini Fard F., Ghafori-Ashtiany M., Mokhtari M., Nankali H., Walpersdorf A., "Seismological and Geodetical Constraint on the Zagros (Iran)", EGS Meeting, Nice, France, 2003.
5. **Tatar M.**, Javan D., Farahbod A., Paul A., Hatzfeld D., "Aftershocks seismicity of the Bam Earthquake". EGU Meeting, Nice, France, 2004.

SELECTED RESEARCH REPORTS:

6. **Tatar M.**, "Study of external damping resistor on response of SS-1 seismometers", IIEES, Technical Note, 1996, Tehran, Iran.
7. **Tatar M.**, Hamzeloo H., Eslami A., "Seismotectonic, Seismicity and seismic hazard analysis of Damavand Thermal power plant site", IIEES, Winter 2001.
8. **Tatar M.**, Assatouriance K., Eslami A., "Seismotectonic, seismicity and seismic hazard analysis for the central tower of Markazi Bank", IIEES, Spring 2002.
9. **Tatar M.**, Hamzeloo H., Eslami A., "Seismotectonic, seismicity and seismic hazard analysis for central building of Oil industry site", IIEES, Spring 2002.
10. **Tatar M.**, Assatouriance K., "Seismotectonic, seismicity and seismic hazard analysis for the South Pars Project Area" IIEES, Summer 2002.
11. **Tatar M.**, Assatouriance K., Eslami A., "Seismotectonic, seismicity and seismic hazard analysis for the Petrochemistry of Shiraz site", IIEES, Spring 2003.
12. **Tatar M.**, and Yamini Fard F. "Seismotectonic and Seismicity study of the Masjed Soleyman region", Annual report 2007, IIEES, summer 2007.
13. **Tatar M.**, and Yamini Fard F. "Seismotectonic and Seismicity study of the Gotvand-e Oleya region", Annual report 2008, IIEES, spring 2009.
14. **Tatar M.** and Moradi Siahkali A., "Seismotectonic and Seismicity study of the Tabriz region", IIEES research report, 2007.
15. **Tatar M.**, Moradi Siahkali A., Yamini Fard F., Javan D. Gh., and Mokhtari M., "Aftershock study of 2003 Bam Earthquake", IIEES research report, 2007.
16. **Tatar M.**, and Nasrabadi A., "Crustal velocity structure beneath the Iranian National Broad band Seismic Network using Receiver Function analysis", IIEES research report, 2007.

AWARDS

The first ranked student with an average of 18.04 during M.Sc. study.

LANGUAGES

Persian, French, and English.