
CONTACT INFORMATION	Survey Research Center Institute for Social Research 426 Thampson Street, Ann Arbor, MI Zip Code 48104-2321	<i>Mobile:</i> +1(734)846-8579 <i>E-mail:</i> arafei@umich.edu <i>URL:</i> umich.edu/~arafei/ <i>Profile:</i> Google Scholar
CURRENT POSITION	Research Assistant: <ul style="list-style-type: none"> • Survey Research Center, Institute for Social Research • University of Michigan 	September 2016
RESEARCH INTERESTS	Biostatistics, survey methodology, calibrating big data, machine learning and clustering of high-dimensional data, finite mixture models, Bayesian computations and Bayesian hierarchical modeling, infectious disease modeling, statistical computing with R	
EDUCATION	University of Michigan, Ann Arbor, MI M.S., Program in Survey Methodology, April 2018 <ul style="list-style-type: none"> • Research topic: <i>Calibrating Big Data from Naturalistic Driving Studies</i> • Advisers: Prof. Michael Elliott, Prof. Carol Flannagan Terhan University of Midical Sciences, Tehran, Iran M.S., Biostatistics, September 2012 GPA: 3.93 (4.00 scale) <ul style="list-style-type: none"> • Thesis topic: <i>Monitoring TB Surveillance Data using Hidden Markov Model</i> • Advisers: Prof. Einollah Pasha, Prof. Roohangiz Jamshidi Orak Ferdowsi University of Mashhad, Mashhad, Iran B.S., Statistics, July 2008 GPA: 3.76 (4.00 scale) <ul style="list-style-type: none"> • <i>A Review of Non-Linear Regression Procedures in SAS</i> • Advisor: Prof. Mehdi Emadi 	
PROFESSIONAL EXPERIENCE	University of Michigan Graduate Student Research Assistant: Septamber 2016 to Present <ul style="list-style-type: none"> • Survey Research Center, Institute for Social Research Summer Internship: May 2017 to September 2017 <ul style="list-style-type: none"> • University of Michigan Transportation Research Institute (MIDAS project) Ministry of Health and Medical Education Program Coordinator and Statistical Consultant: June 2014 to September 2016 <ul style="list-style-type: none"> • National Program for Disease and Health Outcomes Registries • Deputy for Research and Technology Program Coordinator and Data Analyst: March 2010 to June 2014 <ul style="list-style-type: none"> • National Program for NCDs Risk Factors Surveillance • Center for Disease Control and Prevention Tehran University of Medical Sciences	

Research Assistant: June 2014 to September 2016

- Cancer Research Center, Cancer Institute of Iran

Ferdowsi University of Mashhad

Program Coordinator: January 2009 to July 2009

- Program for Documentation and Improvement of Processes
- Deputy for Planning and Resource Development

Research Assistant and Website Manager: June 2008 to January 2009

- Center for Statistical Research and Consultation

Teaching Assistant: January 2007 to June 2007

- Department of Statistics, School of Math Sciences

Voluntary Board Member: October 2005 to April 2008

- Student Academic Association, School of Math Sciences

REFEREED RESEARCH ARTICLES

- [1] Nemati, S., **Rafei, A.**, Freedman, N.D., Fotouhi, A., Asgari, F., and Zendehdel, K. "Cigarette and water-pipe use in Iran: geographical distribution and time trends among the adult population, a pooled analysis of national STEPS surveys, 2006-2009." *Archives of Iranian Medicine*, 20(5):295-301, 2017. [PubMed][abstract]
- [2] Yaseri, M., Afarideh, M., Hosseini, M., Yousefifard, M., **Rafei, A.**, Koohpayehzadeh, J., Asgari, F., Etemad, K., Gouya, M.M., Noshad, S., Bagheri, M., and Ataei, N. "Zero and five end-digit preference and blood pressure quality of care revisited." *Archives of Iranian Medicine*, 20(10):633-639., 2017. [PubMed][abstract]
- [3] Mojarrab, S., Malekzadeh, R., **Rafei, A.**, Akhondzadeh, S., Jeddian, A.R., Jafarpour, M., and Zendehdel, K. "Diseases and health outcomes registry systems in I.R. Iran: successful initiative to improve public health programs, quality of care, and biomedical research." *Archives of Iranian Medicine*, 2017. (accepted)
- [4] Noshad, S., Abbasi, M., Etemad, K., Meysamie, A., Afarideh, M., Khajeh, E., Asgari, F., Mousavizadeh, M., **Rafei, A.**, Neishaboury, M., Ghajar, A.R., Nakhjavani, M., Koohpayehzadeh, J., and Esteghamati A.R. "The prevalence of metabolic syndrome in Iran: a 2011 update." *Journal of Diabetes*, 9(5):518-525, 2016. [PubMed][abstract]
doi:10.1111/1753-0407.12438
- [5] Noormohammadpour, P., Mansournia, M.A., Koohpayehzadeh, J., Asgari, F., Rostami, M., **Rafei, A.**, and Kordi, R. "Prevalence of chronic neck pain, low back pain and knee pain and their related factors in community-dwelling adults in Iran: a population-based national study." *The Clinical Journal of Pain*, 33(2):181-187, 2016. (accepted) [PubMed][abstract]
doi:10.1097/AJP.0000000000000396
- [6] Esteghamati, A.R., Etemad, K., Koohpayehzadeh, J., Abbasi, M., Meysamie, A.P., Khajeh, E., Asgari, F., Noshad, S., **Rafei, A.**, Mousavizadeh, M., Neishaboury, M.R., Afarideh, M., and Nakhjavani, M. "Awareness, treatment and control of pre-hypertension, and hypertension among adults in Iran." *Archives of Iranian Medicine*, 19(7):456-464, 2016. [PubMed][PDF]
- [7] **Rafei, A.**, Pasha, E., and Jamshidi Orak, R. "A warning threshold for monitoring tuberculosis surveillance data: an alternative to Hidden Markov Model." *Journal of Tropical Medicine and International Health*, 20(7):919-929, 2015. [PubMed][abstract]
doi:10.1111/tmi.12494

- [8] Asgari, F., Majidi, A., Koochpayehzadeh, J., Etemad, K., and **Rafei, A.*** “Oral hygiene status in a general population of Iran, 2011: a key lifestyle marker in relation with common risk factors of non-communicable diseases.” *International Journal of Health Policy and Management*, 4(6):343–352, 2015. [PubMed][PDF] doi:10.15171/ijhpm.2015.18
- [9] Hosseini, M., Yousefifard, M., Baikpour, M., **Rafei, A.**, Fayaz, M., Koochpayehzadeh, J., Asgari, F., Etemad, K., Gouya, M.M., and Mohammad, K. “Twenty-year dynamics of hypertension in Iranian adults: age, period and cohort analysis.” *Journal of the American Society of Hypertension*, 9(12):925–934, 2015. [PubMed][abstract] doi:10.1016/j.jash.2015.09.005
- [10] Dalvand, S., Koochpayehzadeh, J., Karimlou, M., Asgari, F., **Rafei, A.**, Seifi B., Niksima, S.H., and Bakhshi, E. “Assessing factors related to waist circumference and obesity: application of a latent variable model.” *Journal of Environmental and Public Health*, 2015. [abstract][PDF] doi:10.1155/2015/893198
- [11] Hosseini, M., Baikpour, M., Yousefifard, M., Fayaz, M., Koochpayehzadeh, J., Ghelichkhani, P., Asady, H., Asgari, F., Etemad, K., **Rafei, A.**, and Gouya, M.M. “Blood pressure percentiles by age and body mass index for adults.” *EXCLI Journal*, 14:465–477, 2015. [PubMed][PDF] doi:10.17179/excli2014-635
- [12] Bakhshi, E., Koochpayehzadeh, J., Seifi, B., **Rafei, A.**, Biglarian, A., Asgari, F., Etemad, K., Bidhendi, Y.R. “Obesity and related factors in Iran: The STEPS survey, 2011.” *Iranian Red Crescent Medical Journal*, 17(6), 2015. [PubMed][PDF] doi:10.5812/ircmj.17(6)2015.22479
- [13] Yousefi, A., Sepehri, A.S., Kargar, M., Akhondzadeh, S., **Rafei, A.**, Sadeghi, M., Alimadadi, A., Ghaeli, P. “Comparing effects of ketamine and thiopental administration during electroconvulsive therapy in patients with major depressive disorder: a randomized, double-blind study.” *The Journal of ECT*, 30(1):15–21, 2014. [PubMed][abstract] doi:10.1097/YCT.0b013e3182a4b4c6
- [14] Hosseini, M., Navidi, I., Yousefifard, M., Heshmat, R., Koochpayehzadeh, J., Asgari, F., Etemad, K., **Rafei, A.**, and Gouya, M.M. “Serum HDL-C level of Iranian adults: results from sixth national surveillance of risk factors of non-communicable disease.” *Journal of Diabetes and Metabolic Disorders*, 13(1):67, 2014. [PubMed][PDF] doi:10.1186/2251-6581-13-67
- [15] Esteghamati, A.R., Etemad, K., Koochpayezadeh, J., Abbasi, M., Meisamie, A.P., Noshad, S., Asgari, F., Mousavizadeh, M., **Rafei, A.**, Khajeh, E., Neishaboury, M.R., Sheikhabahaei, S., and Nakhjavani, M. “Trends in prevalence of diabetes and impaired fasting glucose according to obesity in Iran, 2005-2011.” *Diabetes Research and Clinical Practice*, 103(2):319–327, 2014. [PubMed][PDF] doi:10.1016/j.diabres.2013.12.034
- [16] Koochpayehzadeh, J., Etemad, K., Abbasi, M., Meisamie, A.P., Sheikhabahaei, S., Asgari, F., Noshad, S., Hafezi-Nejad, N., **Rafei, A.**, Mousavizadeh, M., Khajeh, E., Ebadi, M., Nakhjavani, M., and Esteghamati, A.R. “Gender-specific changes in physical activity pattern in Iran: national surveillance of non-communicable disease risk factors (2007-2011).” *International Journal of Public Health*, 59(2):231–241. 2014. [PubMed][abstract] doi:10.1007/s00038-013-0529-3

- [17] Bidhendi, Y.R., Rahgozar, M., Koochpayehzadeh, J., **Rafei, A.**, Asgari, F., and Bakhshi, E. "Association between major non-communicable diseases risk factors and fasting blood glucose in Iran: comparison of two techniques, with and without Dichotomising the Response." *British Journal of Medicine and Medical Research*, 4(7):1514–1525. 2014. [abstract][PDF]
doi:10.9734/BJMMR/2014/6951
- [18] Adavi, M., Salehi, M., Roudbari, M., Asgari, F., and **Rafei, A.** "The comparison of the predictive precision of artificial neural networks and bivariate logistic regression in diagnosis of patients with hypertension and diabetes." *The Razi Journal*, 21(123):54–61, 2014. [abstract][PDF] (*in Persian*)
- [19] Hosseini, M., Yousefifard, M., Taslimi, S., Sohanaki, H., Nourijelyani, K., Asgari, F., Etemad, K., Koochpayezadeh, J., HeidarianMiri, H., **Rafei, A.**, Gouya, M.M., and Mohammad, K. "Trend of blood cholesterol level in Iran: results of four national surveys during 1991-2008." *Acta Medica Iranica*, 51(9):642–651, 2013. [PubMed][PDF]
- [20] Hosseini, M., Taslimi, S., Yousefifard, M., Safarpour, M., Asgari, F., Etemad, K., HeidarianMiri, H., **Rafei, A.**, Koochpayehzadeh, J., and Gouya, M.M. "Serum cholesterol level nomograms for Iranian adults; suggestion for cut-offs on the basis of a national survey." *Iranian Journal of Public Health*, 42(2):164–171, 2013. [PubMed][PDF]
- [21] **Rafei, A.**, Pasha, E., and Jamshidi Orak, R. "Tuberculosis surveillance using a Hidden Markov Model." *Iranian Journal of Public Health*, 41(10):87–96, 2012. [PubMed][PDF]
- [22] Kuhpayezadeh, J., Dargahi, H., Shajari, J., **Rafei, A.**, Narenjiha, M., Afsharpour, S., and Mehdivarzi, D. "Investigation of clinical medical teachers' opinion about validity-feasibility of clinical assessment tools in medical sciences universities in Tehran." *Creative Education*, 3(6):946–950, 2012. [abstract][PDF]
doi:10.4236/ce.2012.326144
- [23] Moghisi, A.R., and **Rafei, A.** "Effect of urbanization on incidence of non-communicable diseases." *Community-Based Initiatives Series of Eastern Mediterranean Regional Office, WHO*, 15:23–37, 2012. [PDF]
- CONFERENCE TALKS/PUBLICATIONS [24] Elliott, M., **Rafei, A.**, and Flannagan, C. "Calibrating Big Data for population inference: applying quasi-randomization approach to naturalistic driving data using Bayesian Additive Regression Trees." In: *2017 U-M Data Science Research Forum MIDAS*, University of Michigan, 2017.
- [25] **Rafei, A.**, Flannagan, C., and Elliott, M. "Calibrating Big Data for population inference: applying quasi-randomization approach to naturalistic driving data using Bayesian Additive Regression Trees." In: *AAPOR's 73rd Annual Conference*, Denver, Colorado, 2017. (*submitted*)
- [26] Mokhtari-Hesari, P., **Rafei, A.**, Mesbah Moosavi, Z., Madjid Ansari, A.R., Zarkoob, K., and Montazeri, A. "Caregivers and their effect on health-related quality of life in elderly breast cancer patients", In: *11th European Breast Cancer Conference (EBCC-11)*, Barcelona, Spain, 2017. (*submitted*)
- [27] Zendehdel, K., Shirkouhi, R., Madjidzadeh, K., and **Rafei, A.** "Iran Familial Breast Cancer Registry (IRFBCR)-mission and structure." In: *1st International Congress of Diseases and Health Outcomes Registry and 1st National Congress of Medical Informatics*, 2017.

- [28] **Rafei, A.**, Nemati, S., and Zendehdel, K. “Geographical patterns and time trends in prevalence of cigarette smoking and waterpipe use in Iran: analysis of pooled data of six consecutive rounds of national survey, 2004-2011.” In: *Proceeding of the international IARC conference*, 2016.
- [29] Khoshnevisan, M.H., Etemad, K., Koohpayezadeh, J., **Rafei, A.**, Asgari, F., and Ebnahmadi, A. “Oral hygiene behavior in Iran: non-communicable diseases risk factors surveillance.” In: *Proceeding of the 9th Iranian and 13th Kuwaiti Divisions of IADR joint Congress*, 2013. [abstract]
- [30] **Rafei, A.**, Pasha, E., and Jamshidi Orak, R. “A warning threshold for monitoring tuberculosis surveillance data using a periodic Hidden Markov Model.” In: *Proceedings of the 9th Seminar of Probability and Statistical Processes (SPSP9)*, 2013.
- [31] **Rafei, A.**, Pasha, E., and Jamshidi Orak, R. “A periodic autoregressive Hidden Markov Model for the surveillance of tuberculosis.” In: *Proceedings of the 12th Conference of Islamic Countries on Statistical Science (ICSS 2012)*, 2012. [abstract]
- [32] **Rafei, A.**, Asgari, F., Azimi S.S., Koohpayezadeh, J., Rezanejadasl, P., Bejani, S., and Etemad, K. “Secular trends of overweight and obesity over past six years in Iran from the viewpoint of non-communicable diseases risk surveillance system.” In: *Proceedings of the 3rd Iranian Congress of Obesity (ICO 2012)*, 2012. [abstract] (*in Persian*)

CONFERENCE
POSTERS

- [33] **Rafei, A.**, Flannagan, C., and Elliott, M. “Calibrating Big Data for population inference: applying quasi-randomization approach to naturalistic driving data using Bayesian Additive Regression Trees.” In: *The 3rd Annual MIDAS Symposium*, University of Michigan, 2017.
- [34] **Rafei, A.**, Flannagan, C., Cao, A., and Elliott, M. “Big data and challenges for inference about population: Comparison of naturalistic driving data in SPMD with NHTS as a nationally representative probability sample.” In: *Midwest Big Data Hub Transportation and Mobility Conference*, University of Michigan, 2017.

OTHER
PUBLICATIONS

- [35] Koohpayezadeh, J., Asgari, F., **Rafei, A.**, and Heidarianmiri, H. The annual report: “Non-communicable diseases risk factors surveillance in Iran, 2009.” *Center for Diseases Control and Prevention, Iran*, 2013. [PDF]
- [36] Koohpayezadeh, J., Asgari, F., and **Rafei, A.** The annual report: “Non-communicable diseases risk factors surveillance in Iran, 2008.” *Center for Diseases Control and Prevention, Iran*, 2013. [PDF]
- [37] **Rafei, A.**, Koohpayezadeh, J., and Asgari, F. The brief report: “Pattern of major non-communicable diseases risk factors by Provinces: results from four nationwide studies on non-communicable diseases risk factors surveillance 2004-2009.” *Center for Diseases Control and Prevention, Iran*, 2013. [PDF]
- [38] Koohpayezadeh, J., Asgari, F., **Rafei, A.**, and Etemad, K. The brief report: “Non-communicable diseases risk factors report in Iran from 2006 to 2009.” *Center for Diseases Control and Prevention, Iran*, 2011. [PDF]
- [39] Asgari, F., Azimi, S.S., and **Rafei, A.** The brief report: “Non-communicable diseases risk factors surveillance system in Iran.” *Center for Diseases Control and Prevention, Iran*, 2011. [PDF in English, Persian]

- SOFTWARE PACKAGE**
- ARHMM: a Modified Autoregressive Hidden Markov Model with applications in infectious diseases modeling, written in both C++ and R, 2016. [GitHub]
- HONORS**
- Ranked first among graduate students in Master of Biostatistics, Tehran University of Medical Sciences. (2012)
 - Ranked among top 1% of entire competitors in the National Entrance Exam for Master of Biostatistics. (2009)
 - Ranked among top 10% undergraduate students in Statistics, Ferdowsi University of Mashhad. (2008)
- AWARDS**
- Travel Award: Summer School on “Modern Methods in Biostatistics and Epidemiology: Statistical Methods for Population-based Cancer Survival Analysis” in Venice, Italy, by Cancer Research Center, Cancer Institute of Iran, Tehran University of Medical Sciences. (2016)
 - Grant No. 625: The project entitled “a warning threshold for monitoring tuberculosis surveillance data using a Hidden Markov Model”, Tehran University of Medical Sciences. (2011)
- TEACHING EXPERIENCE**
- Curriculum developer and main lecturer: The course on “biostatistics with R”, Cancer Research Center, Cancer Institute of Iran, Tehran University of Medical Sciences, Tehran, Iran. (2016)
 - Curriculum developer, lecturer and facilitator: the lecture on “data cleaning, data linkage, and data analysis in registry-based data, The second national workshop of disease registries, Deputy for Research, Ministry of Health and Medical Education, Tehran, Iran. (2016)
 - Curriculum developer and main lecturer: The course on “applied statistics using Stata”, Research Diploma on Cancer Epidemiology, Exceptional Talented Development Center, in collaboration with Cancer Research Center, Tehran University of Medical Sciences, Tehran, Iran. (2015)
 - Curriculum developer, lecturer and facilitator: the workshop on the “management of disease registries”, Deputy for Research, Ministry of Health and Medical Education, Tehran, Iran. (2015)
 - Course manager, curriculum developer and main lecturer: the workshop on “statistical data analysis in medical research using R”, School of Public Health, Iran University of Medical Sciences, Tehran, Iran. (2015)
 - Course manager, curriculum developer and main lecturer: the workshop on “Hidden Markov Model and its application in health sciences”, School of Health Management and Information Sciences, Tehran University of Medical Sciences, Tehran, Iran. (2013)
 - Course manager, curriculum developer and main lecturer: the workshop on “diseases mapping and spatial data analysis using ArcGIS”, School of Health Management and Information Sciences, Tehran University of Medical Sciences, Tehran, Iran. (2013)
 - Course Manager, curriculum developer and main lecturer: the workshop on “an introduction to Hidden Markov Models and its application in diseases surveillance”, Eleventh Iranian Statistical Conference, Iran University of Science and Technology, Tehran, Iran. (2012)

- Course manager, curriculum developer and main lecturer: the workshop on “statistical computing using Stata”, School of Health Management and Information Sciences, Tehran University of Medical Sciences, Tehran. (2012)
- Curriculum developer and main lecturer: the workshop on “an introduction to R and its application in diseases modeling”, Third National Conference on the applications of Mathematics and Control Theory in Medical Sciences, Islamic Azad University of Bojnourd, Bojnourd, Iran. (2011)
- Course manager, curriculum developer and main lecturer: the course on “statistical programming with R”, Center for Diseases Control and Prevention, Ministry of Health and Medical Education, Tehran, Iran. (2011)
- Workshop manager, curriculum developer and main lecturer: the workshop on “statistical computing using R”, School of Health Management and Information Sciences, Tehran University of Medical Sciences, Tehran. (2011)
- Course manager, curriculum developer and main lecturer: the workshop on “statistical analysis in medical research using R”, School of Medicine, Iran University of Medical Sciences, Tehran, Iran. (2010)
- Tutoring Statistics and Probability, Tehran, Iran. (2009-Present)
- Teaching assistance of the course “linear regression techniques”, School of Math. Sciences, Ferdowsi University of Mashhad, Mashhad, Iran. (2007)
- Tutoring Probability and Statistics, Mashhad, Iran. (2004-2008)

INVITED TALKS

- Invited lecturer: the training seminar on “sampling design and executive manual of the national survey of oral health”, Center for Diseases Control and Prevention, Ministry of Health and Medical Education, Tehran, Iran. (2015)
- Invited lecturer: the lecture on “methodology and findings of the national non-communicable diseases risk factors surveillance system in Iran”, Research Institute for Endocrine Sciences, Shahid-Beheshti University of Medical Sciences, Tehran, Iran. (2013)
- Invited lecturer: the lecture on “methodology and findings of the national non-communicable diseases risk factors surveillance system in Iran”, National Institute of Health Research, Tehran University of Medical Sciences, Tehran, Iran. (2012)
- Invited lecturer: the training seminar on “sampling design and executive Protocol of the national survey of oral health”, Center for Diseases Control and Prevention, Ministry of Health and Medical Education, Tehran, Iran. (2012)

 THESIS
 STATISTICAL
 CONSULTING

MD/MSc students:

- Sahar Rostami, “Risk assessment of breast cancer among Iranian female population using Gail’s model: a case-control study”, Cancer Research Center, Cancer Institute of Iran, Tehran University of Medical Sciences. (2016)
- Ahmadi Mahdiah, “Estimation of optimal cut-off point of HbA1C for early diagnosis of diabetic patients in the general population of Iran: findings form national Survey of non-communicable diseases risk factors, 2011”, Department of Community Medicine, Iran University of Medical Sciences. (2016)
- Saeed Nemati, “Prevalence and geographical distribution of cigarette and water-pipe smoking in presence of socioeconomic factors among Iranian adult population, 2011”, Department of Biostatistics and Epidemiology, Tehran University of Medical Sciences. (2015)

- Hadi Maleki, “Comparison of framingham and SCORE models in risk assessment analysis of cardiovascular diseases among Iranian adult population”, Department of Community Medicine, Iran University of Medical Sciences. (2015)
- Hossein Nouri, “Estimation of the prevalence of asthma and asthma-like symptoms in a general population of Iran, 2011 and its association with active and passive smoking”, Department of Community Medicine, Iran University of Medical Sciences. (2015)
- Akram Hosseinifar, “Investigation of the trends in prevalence of metabolic syndrome among Iranian adults from 2004 to 2011”, Department of Community Medicine, Iran University of Medical Sciences. (2015)
- Ali Moaf, “Estimation of the prevalence of self-reported angina pectoris in presence of related risk factors in Iran, 2011”, Department of Community Medicine, Iran University of Medical Sciences. (2014)
- Zahra Hassanzadeh Tabatabaie, “Risk assessment analysis of cardiovascular diseases based on the framingham risk scores in Iran, 2011”, Department of Community Medicine, Iran University of Medical Sciences. (2013)

PhD Students:

- Fatemeh Behtaj, “Investigation of the effects of diet and physical activity in the risk of metabolic syndrome among Iranian Women, 2011”, Department of Community Medicine, Iran University of Medical Sciences. (2015)

SHORT COURSE
AND WORKSHOP
PARTICIPATION

- A one-week course on “Statistical methods for population-based survival analysis”, Summer School on Modern Methods in Biostatistics and Epidemiology, Cison di Valmarino, Treviso, Italy. (2016)
- A three -day national workshop on “management of disease registries”, Deputy for Research and Technology, Ministry of Health and Medical Education, Tehran, Iran. (2015)
- A one-day workshop on “cardiovascular diseases registry”, Isfahan Cardiovascular Diseases Research Institute, Isfahan University of Medical Sciences, Isfahan, Iran. (2015)
- A one-day workshop on “Design and analysis of complex sample surveys”, National Institute of Medical Research Development, Ministry of Health and Medical Education, Tehran, Iran. (2015)
- A one-day workshop on “Examining solutions for cancer registration in LMICs”, the 37th annual International Association of Cancer Registries Conference”, Tata Memorial Center, Mumbai, Inida. (2015)
- A short course on “Cancer Epidemiology”, Cancer Research Center, Cancer Institute of Iran, in collaboration with Exceptional Talented Development Center, Tehran University of Medical Sciences, Tehran, Iran. (2015)
- A two-day national workshop on “population-based cancer registry”, Cancer Research Center, Cancer Institute of Iran, in collaboration with International Agency for Research on Cancer, Tehran, Iran. (2015)
- A two-day national workshop on “management of disease registries”, Deputy for Research and Technology, Ministry of Health and Medical Education, Tehran, Iran. (2015)
- A five-day training course on “scientific writing”, Non-Communicable Diseases Research Center, Tehran University of Medical Sciences, Tehran, Iran. (2014)

- A one-week training course on “genetic epidemiology”, Cancer Research Center, Cancer Institute of Iran, Tehran University of Medical Sciences, Tehran. (2014)
- A one-day workshop on “parallel processing”, Iran University of Science and Technology, Tehran, Iran. (2012)
- The national workshop on “prioritizing methods for non-communicable diseases risk factors”, Zahedan University of Medical Sciences, Chabahar, Iran. (2012)
- The workshop on “computational methods for estimation of the burden of non-communicable diseases”, North Khorasan University of Medical Sciences, Bojnourd, Iran. (2011)
- The summer course on “disease modeling”, Pasteur Institute of Iran, Tehran, Iran. (2011)
- The summer course on “introduction to statistical analysis using Stata”, Pasteur Institute of Iran, Tehran, Iran. (2011)
- The workshop on “diseases mapping using ArcGIS”, Center for Diseases Control and Prevention, Ministry of Health and Medical Education, Iran. (2011)
- The third national conference on “applications of mathematics and control theory in medical sciences”, Islamic Azad University of Bojnourd, Bojnourd, Iran. (2011)
- The international training course on “cost-effectiveness analysis in health and medicine”, Kermanshah University of Medical Sciences, in collaboration with Queensland University, Kermanshah, Iran. (2011)
- The workshop on “advanced survival analysis”, Ilam University of Medical Sciences, Ilam, Iran. (2010)
- The training course on the “concepts, requirements and documentation of quality management in ISO9000”, Mashhad, Iran. (2009)
- A one-month training course of “banking services”, Iran Institute of Banking, Pasargad Bank, Mashhad. (2009)
- A two-day workshop on “data mining and its application in Commerce”, Ferdowsi University of Mashhad, Mashhad, Iran. (2009)
- A two-day workshop on “wavelets and its application in statistics”, Ferdowsi University of Mashhad, Iran. (2007)
- A one-day workshop on “spatial statistics”, Ferdowsi University of Mashhad, Mashhad, Iran. (2006)

CONFERENCE AND
MEETING
ATTENDANCE

- The 2017 “Conference on Statistical Practice (CSP)”, by American Statistical Association, Jacksonville, Florida. (2017)
- The 37th “Annual International Association of Cancer Registries (IACR) Conference”, Mumbai Regional Hub of Cancer Registries, in collaboration with International Agency for Research on Cancer, Mumbai, India. (2015)
- The 12th “Iranian Statistical Conference”, Razi University of Kermanshah, Kermanshah, Iran. (2014)
- The ninth national seminar of “Probability and Stochastic Processes”, Sistan-&-Baluchestan University, Zahedan, Iran. (2013)
- The 12th conference of “Islamic Countries on Statistical Sciences”, Qatar University, Doha, Qatar. (2012)
- The 11th “Iranian Statistical Conference”, Iran University of Science and Technology,

Tehran, Iran. (2012)

- The third congress of “Obesity Prevention and Treatment in Iran”, Shahid Beheshti University of Medical Sciences, Tehran, Iran. (2011)
- The tenth “Iranian Statistical Conference”, Tabriz University, Tabriz, Iran. (2010)

EXPERIENCE IN
SURVEY
METHODOLOGY

- Contribution to the design and analysis of three consecutive rounds of “ National Survey of NCDs Risk Factors (STEPS)”, years 2008, 2009, 2011, Center for Disease Control and Prevention, Ministry of Health and Medical Education.
- Contribution to the design of “National Survey of Cancer Awareness”, year 2015-2016, Cancer Research Center, Cancer Institute of Iran.
- Contribution to the design and analysis of two rounds of “National Oral Health Survey”, years 2012, 2015, Center for Disease Control and Prevention, Ministry of Health and Medical Education.

ACADEMIC
EXPERTISE

Mathematics:

- Applied Mathematics, Calculus, Mathematical Analysis, Linear Algebra, Differential Equations

Statistics:

- Mathematical statistics, Probability, Stochastic Processes, Time Series, Multi-level Regression Models, Mixture Models, Bayesian Computations, Multivariate Analysis, Categorical Data Analysis

Survey Methodology:

- Data Collection Methods, Design and Analysis of Complex Sample Surveys, Sampling Theory, Total Survey Error

Epidemiology and Public Health:

- Syndromic Surveillance and Infectious Disease Modeling, Clinical Trials, Case-Control, Cancer Epidemiology, Cancer Survival Analysis, Non-Communicable Diseases Risk Factors Surveillance, Genetic Epidemiology

COMPUTER SKILLS Computer Programming:

- C, C++, Python, HTML, PHP, SQL

Statistical and Numerical Analysis:

- R, SAS, Stata, SPSS, WinBUGS, Minitab, EpiInfo, EpiData
- Maple, ArcGIS, MATLAB(beginner)

Web/Graphic Designing and Multimedia Software:

- Macromedia Dreamweaver, MS-FrontPage
- Adobe Photoshop, Adobe InDesign, Adobe Flash MX, Adobe Fireworks, Multimedia Builder

Hardware/Information Technology:

- Networking, hardware installation

Desktop Editing Software:

- \TeX (\LaTeX , \BibTeX , BEAMER),
- Microsoft Office, Google Docs, EndNote

Operating Systems:

- Linux, Windows, DOS, Android OS

- PROFESSIONAL MEMBERSHIPS
- American Statistical Association (2014-Present)
 - American Association for Public Opinion Research (2016-Present)
 - National Health Registries Committee (2014-Present)
 - Iranian Statistical Society (IrSS) (2007-Present)
 - Student Academic Association of Ferdowsi University of Mashhad (2005-2008)

- LANGUAGE
- Farsi - native language
 - English - speak fluently and read/write with high proficiency

FURTHER INFORMATION

Further information and auxiliary documents can be found at:
<http://www.rafeistat.ir/>.