



Assistant professor at Islamic Azad University

Name and Surname: **Habib Motieghader** (حبيب مطيع قادر)

Nationality: Iranian

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EDUCATION

Ph.D. in Bioinformatics/ Systems Biology, GPA: (95%), **Tehran University**, Iran, Oct. 2012- Sept. 2017.

Thesis title "Reconstruction and analysis of gene co-expression network and miRNA-mRNA bipartite network in different stages of colorectal cancer using systems biology approach", Under the supervision of [Prof. Dr. Ali Masoudi-Nejad](#). ([Download Link](#))

M.Sc. in Computer Engineering/Software, GPA: (85.2%), **Islamic Azad University**, Iran, Sept. 2006-Nov. 2008.

Thesis title "Application of Learning Automata for task graph scheduling on homogeneous and heterogeneous platforms ", Under the supervision of [Prof. Dr. Saeed Parsa](#). ([Download Link](#))

B.Sc. in **Computer Engineering**, GPA: (81.35%), **Islamic Azad University**, Iran, Feb. 2003-June. 2006. **Thesis title** " Programming on Symbian operating systems"

Associate in **Computer Science**, GPA: (79.85%), **Technical and Vocational University**, Iran, Sept. 2001-June. 2003.

VISITING, CONSULTING, AND TEMPORARY POSITIONS

- Researcher at the Theories and Approaches of Genomic Complexity laboratory (TAGC) / INSERM at the Aix-Marseille University, Marseille, France (Jan 13, 2020 - 28 June, 2020).
- 48th European Mathematical Genetics Meeting (EMGM2020), Lausanne, Switzerland (April 16&17, 2020)
- Research school (Networks and molecular biology), CIRM(center international de rencontres mathematiques), Marseille, France (March 2-6, 2020)
- Visiting Scholar, Heidelberg University, Heidelberg, German (March 1 2019 - May 30, 2019)
- Research Fellow, Department of Biophysics, Research Institute for Fundamental Sciences (RIFS), University of Tabriz, Tabriz, Iran (2017-2019)
- Research Fellow, Kerman University of Medical Sciences, Kerman, Iran (2017-2019)
- Research Fellow, Shahid Bahonar University of Kerman, Kerman, Iran (2016-2018)
- Research Fellow, Tabriz University of Medical Sciences, Tabriz, Iran (2018-2019)
- Research Fellow, Tehran University, Tehran, Iran (2018-2019)
- Instructor, University of Applied Science and Technology, Tehran & Tabriz, Iran (2009-2017)
- Instructor, Payam Noor University, Tabriz, Iran (2010-2016)
- Instructor, Islamic Azad University, Tehran & Tabriz, Iran (2008-2017)
- Instructor, Technical and Vocational University, Tabriz, Iran (2008-2014)

RESEARCH INTERESTS

- Biological Networks
- Cancer biomarkers
- Cancer Biomarkers
- Optimization Algorithms
- Computational Systems Biology
- Omics data analysis
- Deep Learning
- Genome-Wide Association Studies

PUBLICATIONS& PAPERS

Published Journals papers:

1. Masoumeh Adhami, Balal Sadeghi, Ali Rezapour, **Habib Motieghader**^{*}, "Novel therapeutic candidate drugs for Covid-19 based on Protein-Protein interaction network analysis", *BMC Biotechnology*, 21.1 (2021): 1-11
<https://link.springer.com/article/10.1186/s12896-021-00680-z>

2. Yosef Masoudi-Sobhanzadeh, **Habib MotieGhader**, Yadollah Omid, Ali Masoudi-Nejad, "A novel wrapper-wrapper gene/feature selection method for machine learning-based biological applications", *Scientific Reports- Nature, Scientific Reports 11.1* (2021): 1-19.
<https://www.nature.com/articles/s41598-021-82796-y>
 3. Negar Sadat Soleimani Zakeri , Saeid Pashazadeh, **Habib MotieGhader**, "Gene biomarker discovery in different stages of Alzheimer Disease using Gene Co-Expression Network approach", *Scientific Reports-Nature, 10:12210, Issue ,2020*.
<https://www.nature.com/articles/s41598-020-69249-8>
 4. **Habib MotieGhader** , Yosef Masoudi-Sobhanzadeh , Saman Hosseini Ashtiani , Ali Masoudi-Nejad, "Gene and microRNA selection for breast cancer molecular subtype stratification using meta-heuristic based algorithms", *Genomics, Vol 112, Issue 5, 2020*.
<https://www.sciencedirect.com/science/article/pii/S088875432030358X>
 5. Yosef Masoudi-Sobhanzadeh, **Habib Motieghader**; Ali Masoudi-Nejad " FeatureSelect: A software for feature selection based on machine learning approaches", *BMC Bioinformatics*, 3 April 2019. 20:170.
<https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-019-2754-0>
 6. Masoumeh Adhami, **Habib MotieGhader**, Ali Akbar Haghdoost, Reza Malekpour Afshar, Balal Sadeghi, "Gene co-expression network approach for predicting prognostic microRNA biomarkers in different subtypes of breast cancer", *Genomics*, 5 Feb 2019
<https://www.sciencedirect.com/science/article/pii/S088875431830661X>
 7. **MotieGhader Habib**, Najafi Ali, Sadeghi Balal, Masoudi-Nejad Ali. "A hybrid gene selection algorithm for microarray cancer classification using genetic algorithm and learning automata". *Informatics in Medicine Unlocked*. Oct 20 2017.
<https://www.sciencedirect.com/science/article/pii/S2352914817301284>
 8. **MotieGhader Habib**, Kouhsar Morteza, Najafi Ali, Sadeghi Balal, Masoudi-Nejad Ali. "mRNA-miRNA bipartite network reconstruction to predict prognostic module biomarkers in colorectal cancer stage differentiation". *Molecular BioSystems*. 2017;13(10):2168-80.
https://www.researchgate.net/publication/319131775_mRNA-miRNA_bipartite_network_reconstruction_to_predict_prognostic_module_biomarkers_in_colorectal_cancer_stage_differentiation
 9. **MotieGhader Habib**, Gharaghani Sajjad, Masoudi-Sobhanzadeh Yosef, and Masoudi-Nejad Ali, "Sequential and Mixed Genetic Algorithm and Learning Automata (SGALA, MGALA) for Feature Selection in QSAR", *Iranian Journal of Pharmaceutical Research* (2017) - 16 (2): 533-553.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5603862/>
 10. Masoudi-Sobhanzadeh, Yosef, **MotieGhader Habib**, "World Competitive Contests (WCC) Algorithm: a novel intelligent optimization algorithm for Biological and Non-Biological Problems", *Informatics in Medicine Unlocked* (2016).
<https://www.sciencedirect.com/science/article/pii/S2352914816300077>
 11. Fani Maleki Adham, Sadeghi Balal, Sekhavati Mohammad Hadi, **MotieGhader Habib**, "Identification of Novel MicroRNAs and Their Targets in Leukemia Cancers: A Computational Approach", *CANCER PRESS*, Vol1 Issue 1,oct, 2015, P:16-21.
https://www.researchgate.net/publication/286456810_Identification_of_Novel_MicroRNAs_and_Their_Targets_in_Leukemia_Cancers_A_Computational_Approach
 12. Majid Nezhad Vahid, **MotieGhader Habib**, Efimov Evgueni, "A Novel Hybrid Algorithm for Task Graph Scheduling", *IJCSI*, Vol. 8, Issue 2, March 2011,(ISSN Online: 1694-0814).
https://www.researchgate.net/publication/51910752_A_Novel_Hybrid_Algorithm_for_Task_Graph_Scheduling
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Published Conferences papers:

1. **MotieGhader Habib**, Fakhr Kambiz, Javadi Mahmood, Bakhshzadeh Gisou, "Static Task Graph Scheduling Using Learner Genetic Algorithm", SoCPaR2010, **IEEE**, 2010, Paris-France.
Download Link:
https://www.researchgate.net/publication/251984590_Static_task_graph_scheduling_using_Learner_Genetic_Algorithm
2. **MotieGhader Habib**, Fakhr Kambiz, Ahmadi arzil Saeed, "A Hybrid Method for task Scheduling", 2nd ICETC 2010, **IEEE**, 2010, Shanghai-China.
Download Link:
https://www.researchgate.net/publication/251937331_A_hybrid_method_for_task_scheduling
3. **MotieGhader Habib**, Keykhosravi Davoud, Hosseinalipour Ali, "DAG Scheduling on Heterogeneous Distributed Systems using Learning Automata", **Springer LNCS**, 2010, Vietnam.(Book Chapter).
Download Link:
https://www.researchgate.net/publication/220963803_DAG_Scheduling_on_Heterogeneous_Distributed_Systems_Using_Learning_Automata
4. **MotieGhader Habib**, Parsa Saeed, Hossein Nejad Mohammad, "Application of Learning Automata for DAG Scheduling on Homogeneous Networks", 17th Iranian Conference on Electrical Engineering, Iran University of Science and Technology, **ICEE2009**, Tehran-Iran.
Download Link:
https://www.researchgate.net/publication/275267248_Application_of_Learning_Automata_for_DAG_Scheduling_on_Homogeneous_Networks

Published Books:

1. **MotieGhader Habib**, Lotfi Shahriar, esfahlan Mehdi seyed, "An overview of some intelligent Optimization Methods", Islamic Azad University Publishing, Iran, Fall 2011. (In Persian).
Download Link:
https://www.researchgate.net/publication/275262369_An_Overview_of_some_Intelligent_Optimization_Methods_Persian_ISBN_978-964-10-0371-7_2010

SOFTWARE	FeatureSelect: a software for feature selection based on machine learning approaches Developed by: Yosef Masoudi-Sobhanzadeh, Habib Motieghader ; Ali Masoudi-Nejad Download Link along with tutorial : https://github.com/LBBSoft/FeatureSelect
HONORS AND AWARDS	<ul style="list-style-type: none">➤ Certificate of Achievement in 30thACM International Collegiate Programming Contest, 7thAsian Regional Contest in Iran, Dec. 2005, among about 90 teams, Tehran, Iran.➤ Certificate of Achievement in 31stACM International Collegiate Programming Contest, 8thAsian Regional Contest in Iran, Dec. 2006, among about 90 teams, Tehran, Iran.
JOURNAL AND CONFERENCE REFEREE	<ul style="list-style-type: none">➤ Information and Software Technology, Elsevier➤ Information Systems Frontiers, Springer➤ Genomics, Elsevier➤ Frontiers in Physiology, section Systems Biology journal➤ Multidisciplinary Cancer Investigation journal.➤ Journal of Applied Biotechnology Reports.➤ Iran Journal of Computer Science.➤ American Journal of Environmental Sciences.➤ 2011 IEEE Conference on Computer Applications & Industrial Electronics (ICCAIE 2011).➤ 2012 IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE 2012).➤ 2013 IEEE Symposium on Computers & Informatics (ISIEA 2013).➤ 2012 IEEE International Conference on control systems, computing and engineering.➤ 2013 IEEE International Conference on control systems, computing and engineering
PROGRAMMING LANGUAGES	<ul style="list-style-type: none">➤ Python, R, Matlab, C++ , C# and SQL.

Biology Skills

- Molecular and cell biology
 - Cell Signal Transduction
 - Cancer genetics
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LANGUAGES

- *English: Reading [good], Listening [good], Speaking [good], Writing [good]*
 - *Azari: Mother Tongue*
 - *Turkish: Good Speaker*
 - *Persian (Farsi): Native Speaker*
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**EXTRACURRICULAR
ACTIVITIES**

- *Martial Arts*
 - *Swimming*
 - *Jogging*
 - *Study*
 - *music*
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