Personal Information



Name: Ali Mehri
Born: 14/05/1979, Zanjan, Iran
Nationality, Gender, Marital Status: Iranian, Male, Married

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Google Scholar: https://scholar.google.com/citations?user=wEVtRqcAAAAJ&hl=en
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Education

2008-2012: Ph.D. in Solid State Physics,
University of Zanjan (ZNU), Zanjan, Iran.
Supervisor: Prof. Amir Hossein Darooneh.
Dissertation: The Role of Entropy in Text Mining.

2002-2004: M.Sc. in Condensed Matter Physics,
Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran.
Supervisor: Prof. Mir Faez Miri.
Thesis: Ground State of the Colloidal Monolayers in the Presence of Periodic Light Fields.

1998-2002: B.Sc. in Solid State Physics,
Kharazmi University, Tehran, Iran.

Work Experience

2024-Present: Associate Professor, Babol Noshirvani University of Technology, Babol, Iran.
2025-Present: Head of Physics Department, Noshirvani University of Technology, Babol, Iran.
2023-2025: Vice Chancellor of Science Faculty, Noshirvani University of Technology, Babol, Iran.
2012-2024: Assistant Professor, Babol Noshirvani University of Technology, Babol, Iran.
2008-2012: Lecturer, Zanjan University, Zanjan, Iran.
2004-2008: Lecturer, Payame-Noor University, Zanjan, Iran.

Current Studies

Data Mining by Machine Learning,
The applications of Artificial Intelligence in Physics,
Spatial Distribution of Decimal Digits in Irrational Numbers by Statistical Distances.

Research Interests

Data Mining,
Complex Networks Theory,
Thermal & Electronic Transport in Nanostructures,
Artificial Intelligence, Machine Learning, Deep Learning.

Publications

R. Arefian, **A. Mehri**, M. Jamaati,
Testing randomness of irrational numbers up to one billion decimal digits using entropic measures,
In preparation.

A. Alizadeh, **A. Mehri**, M. Jamaati,
Machine learning framework for robust classification of benign and malignant breast tumors: Feature selection and model evaluation,
Submitted.

A.H. Firoozjah, **A. Mehri**, M. Jamaati,
Parkinson's disease diagnosis from resting EEG signals by deep learning algorithms,
Submitted.

Zahraa Jassim Mohammed Al-Jaafari, **A. Mehri**, M. Jamaati,
The Role of Lasers in Improving the Mechanical and Surface Properties of Polycarbonate,
Humanities & Natural Sciences Journal 7(10) (2026) 806.
https://doi.org/https://doi.org/10.53796/hnsj710/40

A.H. Firoozjah, **A. Mehri**, M. Jamaati,
AI-Enhanced Identification of Alzheimer's Disease from Resting-State EEG:
A Comparative Analysis of Algorithms and Feature,
Journal of AI and Data Mining (2026).
https://doi.org/10.22044/jadm.2026.17017.2842

A.H. Firoozjah, **A. Mehri**, M. Jamaati,
Deep learning techniques for early diagnosis of Alzheimer's disease and frontotemporal dementia using EEG signals,
Soft Computing 30 (2026) 3985.
https://doi.org/10.1007/s00500-026-11310-1

A. Mehri, M. Jamaati,
Rescaled range and detrended fluctuation analysis for decimal digits of irrational numbers,
International Journal of Modern Physics C (2025) 2550082.
https://doi.org/10.1142/S0129183125500822

A.H. Hachamnia, **A. Mehri**, M. Jamaati,
Integrating neuroscience and artificial intelligence: EEG analysis using ensemble learning for diagnosis Alzheimer's disease and frontotemporal dementia,
Journal of Neuroscience Methods 416 (2025) 110377.
https://doi.org/10.1016/j.jneumeth.2025.110377

R. Pahlavan Yali, **A. Mehri**, M. Jamaati,
Nonlinear thermal transport in graphene nanoribbon: A molecular dynamics study,
Physica A: Statistical Mechanics and its Applications 610 (2023) 128416.
https://doi.org/10.1016/j.physa.2022.128416

A. Mehri, M. Jamaati,
Statistical metrics for languages classification: A case study of the Bible translations**,**
Chaos, Solitons & Fractals 144 (2021) 110679
https://doi.org/10.1016/j.chaos.2021.110679

H. Mehri-Dehnavi**,** H. Agahi and **A. Mehri,**
A new method in text mining using fractional entropy,
Journal of Research on Many-body Systems 10(2) 2020 97.
https://doi.org/10.22055/jrmbs.2020.15568

A. Mehri, H. Agahi and H. Mehri-Dehnavi,
A novel word ranking method based on distorted entropy,
Physica A: Statistical Mechanics and its Applications 521 (2019) 484.
https://doi.org/10.1016/j.physa.2019.01.080

A. Mehri and M. Jamaati,
Electron transport in ladder-shaped graphene cuts,
Computational Materials Science 158 (2019) 265.
https://doi.org/10.1016/j.commatsci.2018.11.037

M. Nahali and **A. Mehri,**
Magnetic behavior of Si-Ge bond in SixGe4-x nano-clusters,
Physica C: Superconductivity and its Applications 549 (2018) 58.
https://doi.org/10.1016/j.physc.2018.02.037

M. Jamaati, **A. Mehri,**
Text mining by Tsallis entropy,
Physica A: Statistical Mechanics and its Applications 490 (2018) 1368.
https://doi.org/10.1016/j.physa.2017.09.020

A. Mehri,
Long-range statistical correlations in human language: A case study in Persian language,
Journal of Research on Many Body Systems 8 (2018) 123.
https://doi.org/10.22055/jrmbs.2018.13644

M. Jamaati, **A. Mehri,**
Electronic transport in rhombus and bowtie graphene nanoflakes,
Thin Solid Films 638 (2017) 173.
https://doi.org/10.1016/j.tsf.2017.07.052

A. Mehri, M. Jamaati, A. Namiranian,
Electron transport in graphene/h-BN lateral hybrids: Rhombus and bowtie domains,
Superlattices and Microstructures 109 (2017) 264.
https://doi.org/10.1016/j.spmi.2017.05.005

A. Mehri, M. Jamaati,
Variation of Zipf's exponent in one hundred live languages: A study of the holy Bible translations,
Physics Letters A 381(31) (2017) 2470.
https://doi.org/10.1016/j.physleta.2017.05.061

M. Jamaati, **A. Mehri,**
Role of interatomic potentials is simulation of thermal transport in carbon nanotubes,
International Journal of Engineering Transactions B: Applications 30(8) (2017) 1231.
https://www.ije.ir/article_73001.html

A. Mehri,
Non-extensive distribution of human eye photoreceptors,
Journal of Theoretical Biology 419 (2017) 305.
https://doi.org/10.1016/j.jtbi.2017.02.030

A. Mehri, S. Mohammadpour Lashkari,
Power law regularities in human language,
European Physical Journal B 89 (2016) 241.
https://doi.org/10.1140/epjb/e2016-70423-9

A. Mehri, M. Jamaati, H. Mehri,
Word ranking in a single document by Jensen–Shannon divergence,
Physics Letters A 379 (2015) 1627.
https://doi.org/10.1016/j.physleta.2015.04.030

A. Mehri, M. Jamaati, M. Moradi,
The effect of imposed temperature difference on thermal conductivity
in armchair single-walled carbon nanotube,
International Journal of Modern Physics C 26 (2015) 1550105.
https://doi.org/10.1142/S0129183115501053

A. Mehri, A.H. Darooneh, A. Shariati,

The Complex Networks Approach for Authorship Attribution of Books,
Physica A 391 (2012) 2429.
https://doi.org/10.1016/j.physa.2011.12.011

A. Mehri, A.H. Darooneh,
Keyword extraction by nonextensivity measure,
Physical Review E 83 (2011) 056106.
https://doi.org/10.1103/PhysRevE.83.056106

A. Mehri, A.H. Darooneh,
The role of entropy in word ranking,
Physica A 390 (2011) 3157.
https://doi.org/10.1016/j.physa.2011.04.013

A.H. Darooneh, G. Naeimi, **A. Mehri**, P. Sadeghi,
Tsallis entropy, escort probability and the incomplete information theory,
Entropy 12 (2010) 2497.
https://doi.org/10.3390/e12122497

A.H. Darooneh, **A. Mehri**,
A nonextensive modification of the Gutenberg-Richter law: q-stretched exponential form,
Physica A 389 (2010) 509.
https://doi.org/10.1016/j.physa.2009.10.006

Conferences

A.H. Hachamnia, **A. Mehri**, M. Jamaati,
Parkinson's disease diagnosis from EEG signals by hybrid learning,
In preparation.

A.H. Hachamnia, **A. Mehri**, M. Jamaati,
Identifying Parkinson's disease with deep learning from EEG signals using zero-crossing feature,
10th International Conference on Technology Development in Iranian Electrical Engineering,
Tehran, Iran (2025).

A.H. Hachamnia, **A. Mehri**, M. Jamaati,
Alzheimer’s disease and frontotemporal dementia detection from resting EEG by deep learning,
3rd International Conference of Electrical Engineering, Computer, Mechanics, and New Technologies Related to Artificial Intelligence, Mashhad, Iran (2024).

A.H. Hachamnia, **A. Mehri**, M. Jamaati,
Diagnosis Alzheimer’s disease from EEG signals by ensemble learning,
1st International Conference on Health, Hygiene, and Education, Sari, Iran (2024).

A.H. Hachamnia, **A. Mehri**, M. Jamaati,
Diagnosis Alzheimer's disease from EEG signals by machine learning techniques,
31th IPM Physics Spring Conference, Tehran, Iran (2024).

A. Mehri, M. Jamaati,
Correlation of statistical metrics in human languages,
Annual Physics Conference of Iran, Kermanshah, Iran (2020).

M. Jamaati, **A. Mehri**,
Band gap investigation in multilayered graphene/hexagonal boron nitride hybrid structures,
Annual Physics Conference of Iran, Tabriz, Iran (2019).

A. Mehri, M. Jamaati,
Electronic transport in bowtie and rhombus graphene nanoflakes,
Annual Physics Conference of Iran, Qazvin, Iran (2018).

A. Mehri, M. Jamaati,
Electronic transport in mono-layer pristine graphene and graphene/h-BN hybrids
with rombus and bowtie domains**,**
24th IPM Physics Spring Conference, Tehran, Iran (2017).

A. Mehri, M. Jamaati,
Electronic transport in mono-layer graphene/h-BN hybrids with rombus and bowtie domains**,**
23th Annual Iranian Meeting on Condensed Matter Physics, Zanjan, Iran (2017).

A. Mehri, M. Jamaati, S. Mohammadpour Lashkari,
Zipf's Exponent in One Hundred Live Languages**,**
Iranian Conference on Mathematical Physics, Qom, Iran (2017).

A. Mehri, M. Jamaati, S. Mohammadpour,
Statistical Features of Persian Language,
Annual Physics Conference of Iran, Shiraz, Iran (2016).

A. Mehri, M. Jamaati,
Role of interatomic potential in thermal transport of armchair single-walled carbon nanotube,
Annual Physics Conference of Iran, Shiraz, Iran (2016).

H. Dashtianeh, H. Yahyavi Kuchaksaraei, H. Mehri-Dehnavi, **A. Mehri**, R. Rahimi,
Evaluating the most effective mechanism of spine in synaptic long-term potentiation and memory,
7th National Conference on Physics of Payame Noor University, Tabriz, Iran (2016).

M. Tabesh, H. Mehri Dehnavi, R. Khanbabaie, **A. Mehri**,
Evaluating the most effective mechanism of spine in synaptic long-term potentiation and memory,
7th National Conference on Physics of Payame Noor University, Tabriz, Iran (2016).

H. Dashtianeh, **A. Mehri**, H. Mehri Dehnavi,
A simpler method of obtain the asymptotic relation between expectation value population of states

and most probable values in canonical ensemble,
7th National Conference on Physics of Payame Noor University, Tabriz, Iran (2016).

A. Mehri, M. Jamaati,
Calculation of fractal dimension for texts**,**
8th Annual Conference on Statistical Physics, Isfahan, Iran (2015).

A. Mehri, M. Jamaati, H. Mehri,
Key-phrase extraction in a single text by Jensen-Shannon divergence,
7th Annual Conference on Statistical Physics, Zanjan, Iran (2015).

A. Mehri, M. Jamaati, M. Nemati Andevari,
Word ranking in unstructured document by Jensen-Shannon divergence,
12th Annual Conference on Condensed Matter Physics, Isfahan, Iran (2015).

A. Mehri, M. Jamaati,
The effect of temperature gradient measure on thermal conductivity in armchair SWCNT,
Annual Physics Conference of Iran, Birjand, Iran (2013).

M. Jamaati, **A. Mehri**,
Length and diameter dependence of thermal conductivity in SWCNTs,
Annual Physics Conference of Iran, Yazd, Iran (2012).

M. Jamaati, **A. Mehri**,
Thermal transport in single-walled armchair carbon naotubes,
18th Annual Iranian Meeting on Condensed Matter Physics, Zanjan, Iran (2012).

A. Shariati, A.H. Darooneh, **A. Mehri**,
Complex network of Persian books,
17th Annual Iranian Meeting on Condensed Matter Physics, Zanjan, Iran (2011).

Supervising & Advising

B.Sc. Project

Student: Alireza Valizadeh,
Thesis: Investigation of atmospheric distribution and dosimetry of radioactive particles in a hypothetical nuclear incident using dispersion software and codes,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2025).

Student: Sahel Sharififar,
Thesis: Investigation of the electrical properties of nanostructures using the Pybinding software,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2025).

Student: Reihaneh Sadat Bolboli,
Thesis: Migraine diagnosis by artificial intelligence,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2025).

Student: Amir Mohammad Ebrahimi,
Thesis: Biological data processing by machine learning methods,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2024).

Student: Amir Reza Mohammadzadeh,
Thesis: Calculate the appropriate speed for driving using image processing,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2024).

Student: Kamyab Kazemi Moghaddam,
Thesis: Nuclear fusion and fusion reactors,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2024).

Student: Saman Abbassi,
Thesis: Physics role in exploration with art,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2023).

Student: Arya Arghavan,
Thesis: Hologram physics,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2023).

Student: Fatemeh Mahdipour,
Thesis: Application of nano-physics in textile and electrospinning,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2023).

Student: Alireza Faghani,
Thesis: Performance and application of 3D scanners,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2022).

Student: Melika Behzadmehr,
Thesis: Investigation of the wind turbine performance,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2022).

Student: Elaheh Yaghoubi,

Thesis: Image processing by deep learning,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

Student: Mahya Faramarzirad,
Thesis: Solving differential equations of epidemic models by Python,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

Student: Zahra Aghayinejad,
Thesis: Hurst Exporent estimation for text data,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

Student: Zeinab Ahangari,
Thesis: Investigation of epidemic models in networks,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

Student: Zahra Abedi,
Thesis: Simulation of cellular automaton by Python,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

Student: Peyman Ghaffari,
Thesis: Feature extraction of complex networks by Gephi,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

Student: Saeed Mahmoudi,
Thesis: Calculation of Shannon entropy for statistical distribution of decimal digits of Pi,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

Student: Mostafa Rahmani,
Thesis: Primary trends in financial markets,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2021).

M.Sc. Thesis

Student: Maryam Aghassian,
Thesis: Analysis of Parkinson's disease with artificial intelligence,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,

Institute: Babol Noshirvani University of Technology (2024).

Student: Shaghayegh Valizadeh,
Thesis: Evaluation of air quality index using machine learning methods,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2024).

Student: Fahimeh Zare,
Thesis: Diagnosis of brain diseases using artificial intelligence,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2024).

Student: Kiarash Oskouie,
Thesis: Financial markets prediction using artificial intelligence,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2024).

Student: Essmail Fathtabar,
Thesis: Data mining by machine learning,
Supervisor: Ali Mehri, Hassan Kariminejad,
Advisor: Farzaneh Nazari,
Institute: Babol Noshirvani University of Technology (2024).

Student: Mahdi Gholipour,
Thesis: Nonlinear brain dynamics in neural field model,
Supervisor: Hasan Alinejad, Rouhollah Bakhshandeh,
Advisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2023).

Student: Amir Hossein Hachamnia Firoozjah,
Thesis: Biological data processing by machine learning methods,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2023).

Student: Saba Poulayi,
Thesis: Complexity measurement in complex networks,
Supervisor: Ali Mehri,
Institute: Babol Noshirvani University of Technology (2022).

Student: Mostapha Rahmani,
Thesis: Word ranking by Hurst exponent,
Supervisor: Ali Mehri,
Advisor: Rahmatollah Rouhollahi,

Institute: Babol Noshirvani University of Technology (2022).

Student: Maryam Bahaa Abdollah,
Thesis: An Overview of Electrical Properties of Two-Dimensional Nanostructures,
Supervisor: Ali Mehri,
Advisor: Behrouz Eftekharinia,
Institute: Babol Noshirvani University of Technology (2022).

Student: Ali Taha Abdullah Zarkani,
Thesis: An overview of mechanical properties of two-dimensional nanostructures,
Supervisor: Ali Mehri,
Advisor: Hossein Akou,
Institute: Babol Noshirvani University of Technology (2022).

Student: Mohammad Hamed Nemah,
Thesis: Time series analysis by python,
Supervisor: Ali Mehri,
Advisor: Hassan Alinejad,
Institute: Babol Noshirvani University of Technology (2022).

Student: Mohammad Hamed Nemah,
Thesis: Simulation of the effect of air humidity on the chemical and physical properties of dielectric barrier discharge plasma using Comsol software,
Supervisor: Ali Mehri,
Advisor: Farshad Sohbatzadeh, Hamed Soltani,
Institute: Babol Noshirvani University of Technology (2021).

Student: Reza Pahlavan Yali,
Thesis: Thermal Conductivity Calculation for Nanostructure by Molecular Dynamics,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2021).

Student: Komeil Nezamtabar Malekshah,
Thesis: Biological signal processing by complex networks theory,
Supervisor: Ali Mehri,
Advisor: Reza Khanbabayi,
Institute: Babol Noshirvani University of Technology (2019).

Student: Sahar Mohammadpour Lashkari,
Thesis: Laser induced fluorescence identification of Escherichia coli using gold nanoparticles conjectured with 5-aminolevlinic acid,
Supervisor: Ali Mehri, Hassan Kariminejad,
Advisor: Hossein Amani,
Institute: Babol Noshirvani University of Technology (2019).

Student: Fatemeh Samadi,

Thesis: Study of electron transport in graphene nanostructures,
Supervisor: Ali Mehri, Hossein Mehri Dehnavi,
Institute: Babol Noshirvani University of Technology (2018).

Student: Somayyeh Darayi,
Thesis: Electron transport investigation in graphene hybrids,
Supervisor: Ali Mehri, **Advisor:** Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2017).

Student: Vahab Shekari,
Thesis: Modulational instability of electrostatic acoustic waves in an electron-hole semiconductor quantum plasma,
Supervisor: Hassan Alinejad, **Advisor: Ali Mehri**,
Institute: Babol Noshirvani University of Technology (2017).

Student: Hassan Dashtianeh,
Thesis: Protecting entanglement under noise in noninertial frames,
Supervisor: Ali Mehri, Hossein Mehri Dehnavi,, **Advisor:** Robabeh Rahimi,
Institute: Babol Noshirvani University of Technology (2017).

Student: Zeinab Najafi,
Thesis: The study of heat transport in nanostructures using molecular dynamics simulation,
Supervisor: **Ali Mehri**, Hossein Mehri Dehnavi,
Institute: Babol Noshirvani University of Technology (2016).

Student: Soheila Masoudi,
Thesis: Statistical analysis of information transferred by a population of cone photoreceptors in retina,
Supervisor: **Ali Mehri**, Reza Khanbabayi,
Institute: Babol Noshirvani University of Technology (2016).

Student: Mahboubeh Mollaelahi,
Thesis: Long rang correlations in natural languages,
Supervisor: **Ali Mehri**, Hojjatollah Daneshmand,
Institute: University of Sistan and Baluchestan (2016).

Student: Mina Assadifar,
Thesis: Investigating the statistical properties of brain neural signals,
Supervisor: Reza Khanbabayi, Ali Banijamali, **Advisor: Ali Mehri**,
Institute: University of Sistan and Baluchestan (2016).

Student: Mahmoud Fouladi,
Thesis: Effect of nonlinear frequency chirp on laser electron acceleration in vacuum,
Supervisor: Hossein Akou, **Advisor: Ali Mehri**,
Institute: Babol Noshirvani University of Technology (2015).

Student: Maryam Abdi,
Thesis: Coupling between Langmuir and low-frequency waves in dusty plasmas,

Supervisor: Hassan Alinejad, **Advisor: Ali Mehri**,
Institute: Babol Noshirvani University of Technology (2015).

Student: Mahsa Tabesh,
Thesis: Study the action potential for the release of neurotransmitters,
Supervisor: Reza Khanbabayi, Hossein Mehri Dehnavi, **Advisor: Ali Mehri**,
Institute: Babol Noshirvani University of Technology (2013).

Student: Arezou Sefidgarnia,
Thesis: Study the correlation between input and output of the visual system,
Supervisor: Reza Khanbabayi, Hossein Mehri Dehnavi, **Advisor: Ali Mehri**,
Institute: Babol Noshirvani University of Technology (2013).

Ph.D. Dissertation

Student: Adeleh Alizadeh,
Dissertation: Scientific Machine Learning for the Study of Complex Systems,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2026).

Student: Roya Arefian,
Dissertation:
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2026).

Student: Zahraa Jassim Mohammed Al-Jaafari,
Dissertation: Machine Learning-Assisted Multiscale Analysis and Predictive Optimization of Laser-Induced Structures in Advanced Materials,
Supervisor: Ali Mehri,
Advisor: Maryam Jamaati,
Institute: Babol Noshirvani University of Technology (2026).

Courses Taught

General Physics: Physics (10^{th} Ed.); R. Resnick, D. Halliday and K.S. Krane.
General Mathematics: Calculus & Analytic Geometry; G.B. Thomas and R.L. Finney.
Classical Mechanics: Analytical Mechanics (4^{th} Ed.); G.R. Fowles.
Computer Programming: C++, The Complete Reference (4^{th} Ed.); H. Schildt,
MatLab, Introduction to Modeling and Simulation with MATLAB and Python; S.I. Gordon, B. Guilfoos.
Python, Phyton for Everyone (3^{rd} Ed.); C. Horstmann, R. Necaise.

Mathematical Physics: Mathematical Methods for Physicists (6th Ed.); G.B. Arfken and H.J. Weber.
Modern Physics: Modern Physics (3rd Ed.); K.S. Krane.
Modern Physics Laboratory: Experiments in Modern Physics (2nd Ed.); A.C. Melissinos and ...
Electronics: Electronic Fundamentals & Applications …; J. Millman and C.C. Halikas.
Thermodynamics: Heat & Thermodynamics (7th Ed.); H.W. Zemansky and R.H. Dittman.
Quantum Mechanics: Quantum Physics (3rd Ed.); S. Gasiorowicz.
Statistical Physics: Fundamentals of Statistical and Thermal Physics; F. Reif.
Statistical Mechanics: Statistical Mechanics (4th Ed.); R.K. Pathria and P.D. Beale.
Computational Physics: Computational Physics (2nd Ed.); M. Newman.
Machine Learning: Machine Learning for Absolute Beginners (3rd Ed.); O. Theobald.
Physics of Complex Systems: Statistical Physics of Complex Systems (3rd Ed.); E. Bertin.

Computer Skills

Operating Systems: Linux, Windows
Languages: Fortran, C++, MATLAB, Python
Simulation Tools: Monte Carlo, Molecular Dynamics
Software: Gnumeric, TableCurve, LAMMPS, VMD, GIMP, Scikit-Learn