

Gouripeddi Sai Preeti, PhD

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Objectives

An enthusiastic educator with strong academic credentials and exceptional communication, organisational, and interpersonal skills. Deeply passionate about teaching and always seeking meaningful opportunities to engage with students. Committed to advancing physics education through research-driven practices and the thoughtful integration of innovative pedagogical techniques and technologies. Actively interested in academic administration and contributing to the development of effective, student-centred learning environments.

Education

PhD(Physics) – University of Hyderabad [2003-2009]

M.Sc (Physics) – University of Pondicherry [2001-2003]

B.Sc Physics (Hons) – Sri Sathya Sai Institute of Higher Learning [1998-2001]

Employment

- Associate Professor, Physics, Hyderabad (Jan 2023 – till date)
- Assistant Professor – GITAM – Hyderabad (July 2014 – Dec 2022)
- UGC Postdoctoral fellow – the University of Hyderabad – Hyderabad (May 2014 – June 2016)
- Dr. D. S. Kothari, postdoctoral fellow – University of Hyderabad – Hyderabad (Feb 2011 – Jan 2014)
- Postdoctoral fellow – the University of Bologna, Italy, Dipartimento di Chimica Industriale (formerly Dipartimento di Chimica Fisica ed Inorganica), BIND – EU – FP7 fellowship (June 2009 – Dec 2011)

Teaching Experience

1. Mathematical methods for Physicists.
2. Taught Physics to BSc(Chemistry Students)
3. Taught Introductory Classical Mechanics, Modern and Physics, Basic Optics as a part of the BSc(Blended) Program
4. Have taught Solid State Physics to Engineering Students.
5. Currently teaching Engineering Physics to Engineering students at GITAM School of Technology, Hyderabad
6. Taught a 4 credit Monte Carlo course to the M.Tech (Engineering and nanotechnology) students twice at the School of Engineering, Science and Technology, the University of Hyderabad during the period Jan 2011- May 2011 and Jan 2012 – May 2012.
7. Undertook a teaching assistantship in conducting FORTRAN lab during the period August – December 2008 for the M.Sc (Graduate Physics) students at the School of Physics, University of Hyderabad.

Roles and Responsibilities at GITAM

- Physics department timetable in charge (Jan 2025 – till date)
- Mentor to CSE students
- Assistant Director – Faculty Development (April 2023 – April 2025)
- Assistant Director – Blended Learning (GCFD) (April 2022 – March 2022)
- ICC member (2021)
- Moodle Champion (2020)
- Program coordinator – BSc (Blended) program in association with the University of Melbourne (2019 – 2022)
- Department of Physics timetable coordinator (2019 – 2021)
- Department NAAC coordinator (2017-2019)
- GLearn coordinator (2017-2019)

Responsibilities as an Assistant Director

As Assistant Director of Faculty Development at GITAM, I led initiatives to enhance teaching effectiveness and promote pedagogical innovation. I trained over 200 newly recruited faculty members in learner-centred methodologies, effective use of educational technology, and integration of the Moodle LMS. I encouraged wider faculty adoption of technology in classrooms and implemented innovative teaching strategies tailored for L1 (first-year) classrooms to improve engagement and conceptual understanding. I also coordinated the IUCEE (Indo Universal Collaboration for Engineering Education) program, resulting in a significant increase in faculty participation in the IICEP (IUCEE International Engineering Educator Certification Program). My efforts led to measurable improvements in faculty confidence with digital tools, broader use of active learning techniques, and enhanced student learning experiences across departments

- Designed and facilitated impactful workshops, seminars, and training sessions focused on instructional strategies, curriculum development, and evidence-based pedagogy.
- Provided individualised faculty consultations to support effective teaching practices, including active learning, learner-centred assessments, and inclusive classroom strategies.
- Collaborated closely with academic departments to promote innovative and student-centred teaching methodologies.
- Mentored faculty members in adopting reflective teaching practices and continuous improvement approaches.
- Led the integration and adoption of technology-enhanced learning tools and Learning Management Systems (LMS) to improve teaching effectiveness and student engagement.
- Contributed to the development, assessment, and evaluation of GCFD programs, ensuring alignment with institutional goals and continuous quality improvement.
- Engaged in research on best practices in pedagogy and instructional design and disseminated findings through scholarly publications and academic presentations.
- Maintained up-to-date knowledge of trends in higher education, including advancements in instructional design, educational technology, and faculty development.
- Worked closely with IUCEE (Indo Universal Collaboration for Engineering Education) to bring global best practices in pedagogy and faculty development to the institution.

Achievements

1. Awarded the title ING.PAED.IGIP, International Engineering Educators.

2. Individual Honorary Member – IUCEE (2024-2025)

3. Obtained 81% in mentoring educators in educational technology FDP conducted by IIT Bombay,

June 2018.

4. Awarded the SAP Award of Excellence in the workshop 'Use of ICT in Education for Online and Blended Learning' conducted by IIT Bombay during the period May - July 2016.
5. Dewan Jawahar Lal Nayar Memorial Prize for the best Poster presented (Physics section) in the 15th National Liquid Conference on Liquid Crystals held at the Indian Institute of Sciences, Bangalore, India, during the period 13-15th October 2008.
6. Awarded the donor medal, Prof. SURI BHAGWANTHAM GOLD MEDAL for procuring the First Rank in M.Sc Physics (2003) in Pondicherry University
7. Awarded the university medal 'PONDICHERRY UNIVERSITY GOLD MEDAL' for procuring the First Rank M.Sc Physics (2003) in the Pondicherry University.
8. Nominated for the President's Award for being the topper in the class by the Raman School of Physics, Pondicherry University in the year 2003-2004.

Fellowships Awarded

1. UGC postdoctoral fellow for Women from May 2014 at the University of Hyderabad.
2. Selected and awarded the Dr D. S. Kothari post-doctoral fellowship by the University Grants Commission, India, from Feb 2011 – Jan 2014.
3. Selected and awarded the DST women's fellowship by the Department of Science and Technology, the government of India, in 2011.
4. Awarded a DST fellowship in the project 'Setting up of a Supercomputing Facility' with order No. UH/CMSD/HPCF/2006-07 from the year 2007.
5. Awarded a junior research fellowship under the research title 'Application of Non-Boltzmann Monte Carlo Methods of phase transition in confined liquid crystals' sponsored by the Department of Atomic Energy (BRNS), India, during the period Dec 2005.

Invited Talks/Resource Persons

- An Invited talk at the Workshop and conference on Monte Carlo Simulations at Madurai Kamaraj University, Madurai, from August 9 – 13th, 2010, titled Monte Carlo simulations of Liquid crystal systems.
- Invited to give a presentation on 'The effect of elastic constants in a confined thin film: Monte Carlo Study' at the 'National Conference on Current Trends in Soft Matter (NCCTSM - 2015)' held at Central University of Tamil Nādu, Thiruvavur during the period 19 – 20 march 2015.
- Invited by the department of Physics, Central University of Tamil Nādu, Thiruvavur, to present my work on 'Active Learning Tools in Physics' on the 14th Dec 2018
- Resource Person, JNTU Hyderabad, innovative methods of using Moodle in teaching (2021 – 2022)
- Resource person for faculty development at Sreenidhi University, Innovative Pedagogy: Creating Dynamic Classrooms with Digital Tools (June 2025)
- Resource person, NEP 2020 Orientation and Sensitisation offered by Central University of Jammu (J&K) as a UGC-Malaviya Mission Teacher Training Centres (MMTTCs). Topic: Using AI to Personalize and Plan Lessons (April, 2025)
- Resource person, NEP 2020 Orientation and Sensitisation offered by Central University of Jammu (J&K) as a UGC-Malaviya Mission Teacher Training Centres (MMTTCs). Topic: From Classroom to Research (Dec, 2024)

Collaborations

- A collaboration with Prof M. Vanaja, Department of Education, MANUU, Hyderabad, based on blended learning and teaching Physics (2019-2020).
- A collaboration with Dr D. Jayasri, School of Natural Science, Mahindra Ecole Centrale, Hyderabad in simulating and understanding the theory from the point of view of Density Functional Theory.
- To get a hold on the practical and experimental perspective, a collaboration with Dr Madhurima, Department of Physics, Central University of Tamil Nādu, has been established.
- A long-standing collaboration with the group of Prof. Claudio Zannoni, Dipartimento di Chimica Industriale (formerly Dipartimento di Chimica Fisica ed Inorganica), Università di Bologna, Bologna. Selected and completed a tenure of funded by the Department of Science and Technology, the government of India and the government of Italy-sponsored bilateral Indo –Italian collaboration in the period 2005-2007. Presently, selected by the Department of Science and Technology for an Indo-Italian collaboration initiated by the Unit for Scientific and Technological Cooperation of the Italian Ministry of Foreign Affairs and the Department of Science and Technology, Ministry of Science and Technology, Government of India in the period 2012-2014.
- Collaboration with Prof. Sri Singh's group, Physics department, Banaras Hindu University, Varanasi, in simulating liquid crystal systems that are of interest to their group.

Memberships

- IAPT – Life Membership - L9760
 - Indian Physics Association Life Membership
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- Life member of the Organisation for Women in Science for the Developing World
- Life member of the Indian Liquid Crystal Society: L-437

Research Guidance:

Submitted: one B.Sc. Project

Ongoing: one PhD

Publications

1. B. Kamala Latha, G. Sai Preeti, K. P. N. Murthy and V. S. S. Sastry; Director structures with dominant in-plane alignment in hybrid planar films of biaxial nematic liquid crystals: A Monte Carlo study; *Computational Materials Science*, (2016), Volume 118, Pages 224–235. <http://dx.doi.org/10.1016/j.commatsci.2016.03.019>

2. G. Sai Preeti, C. Chiccoli, P. Pasini, V.S.S. Sastry, C. Zannoni; Lattice spin simulations of topological defects in biaxial nematic films with homeotropic surface alignment; *Int. J of Mod Physics* **24**, 1350026 (2013). <https://doi.org/10.1142/S0129183113500265>
3. G. Sai Preeti, C. Chiccoli, P. Pasini, V.S.S. Sastry, C. Zannoni; On Defects in Biaxial Nematic Films with Random Planar Surface Alignment: A Monte Carlo Study; *Mol. Cryst. Liq. Cryst*; **573**, 10-17; (2013). <https://doi.org/10.1080/15421406.2012.763214>
4. G. Sai Preeti, K.P.N. Murthy, V.S.S. Sastry, C. Chiccoli, P. Pasini, R. Berardi, and C. Zannoni; Does the isotropic biaxial nematic transition always exist? A new topology for the biaxial nematic phase diagram, *Soft Matter*, **7(24)**, 11483 (2011). 10.1039/C1SM06214J
5. B. Kamala Latha, G. Sai Preeti, N. Satyavathi, K. P. N. Murthy, V. S. S. Sastry; Anchoring Transitions in Biaxial Nematic Droplets: A Monte Carlo Study, *Molecular Crystal Liquid Crystal*, **545(1)**, 230[1454](2011). <https://doi.org/10.1080/15421406.2011.572022>
6. G. Sai Preeti, N. Satyavathi, K.P.N. Murthy and V.S.S. Sastry, Anchoring transition and influence of director fluctuations in liquid crystal droplets; *Liquid Crystals*, **36** Issue 12, 1379 (2009). <https://doi.org/10.1080/02678290903217424>
7. C. Chiccoli, S.P. Gouripeddi, P. Pasini, K.P.N. Murthy, V.S.S. Sastry, C. Zannoni, Hybrid Nematic Films: A detailed Monte Carlo investigation, *Molecular Crystal Liquid Crystal*, **500**, 118 - 131. (2009). <https://doi.org/10.1080/15421400802714072>
8. G. Sai Preeti, V. Vijay Kumar, V.S.S. Sastry and K.P.N. Murthy, Monte Carlo study of radial and axial ordering in cylindrical films of liquid crystal, *Computational Materials Science*, **44**, Issue 1, 180-184, (2008). <https://doi.org/10.1016/j.commatsci.2008.01.036>
9. Flip & Pair—a strategy to augment a blended course with active-learning components: effects on engagement and learning V Kannan, H Kuromiya, SP Gouripeddi, R Majumdar, J Madathil Warriem, *Smart Learning Environments* 7 (1), 1-23

Conference Proceedings

1. G. Sai Preeti, N. Sathyavathi, K. P. N. Murthy, V. S. S. Sastry, 'Anchoring Transitions in a Liquid crystals Droplet', B33, DAE Solid State Physics Symposium Proceedings, (2007).
2. Sai Preeti Gouripeddi, Vijayanandhini Kannan, Vanaja Mahadasu 'Tutorials in Engineering Physics Using Cooperative Learning: A Reflective Introspection', The 18th IEEE International Conference on Advanced Learning Technologies, during the period Jul 09 to 13, 268, 2018. DOI: 10.1109/ICALT.2018.00129.
3. Vijayanandhini Kannan; Sai Preeti Gouripeddi, 'Enhancement in Critical Thinking Skills Using the Peer Instruction Methodology', The 18th IEEE International Conference on Advanced Learning Technologies, during the period Jul 09 to 13, 307, 2018. DOI: 10.1109/ICALT.2018.00127.
4. Sai Preeti Gouripeddi ; Vijayanandhini Kannan, 'Collaborative Learning in Engineering Physics Tutorials', 2018 IEEE Tenth International Conference on Technology for Education (T4E), 10 -13 Dec. 2018, pp24-28, DOI: 10.1109/T4E.2018.00013.
5. Vijayanandhini Kannan, Sai Preeti Gouripeddi, Peer Instruction - Implementation and Assessment of Learning, Year: 2018, Volume: 1, Pages: 194-200, DOI 10.1109/T4E.2018.00050.
6. Toward machine learning and big data approaches for learning analytics Prasanth Sai Gouripeddi, Ramkiran Gouripeddi, Sai Preeti Gouripeddi, 2019 IEEE Tenth International Conference on Technology for Education (T4E), 256-257, DOI 10.1109/T4E.2019.000-6

-----7. Contextualising the learner-centric MOOCs model for effective blending of flipped-classroom-----

- method in engineering physics course, Vijayanandhini Kannan, Sai Preeti Gouripeddi, 2019 IEEE Tenth International Conference on Technology for Education (T4E), DOI 10.1109/T4E.2019.00-51
8. Implementing Inquiry-Based Collaborative Learning in Solid State Physics Course, Vijayanandhini Kannan, Sai Preeti Gouripeddi, 2019 IEEE Tenth International Conference on Technology for Education (T4E), DOI 10.1109/T4E.2019.00059.

Conference Presentations

1. G. Sai Preeti, K. P. N. Murthy, V. S. S. Sastry, Non – Boltzmann study of a hybrid Nematic film at ‘SMPRI 2005’ held at Material Research Centre, Indian Institute of Sciences, Bangalore, India. August 29th 2005 – September 2nd 2005.
 2. G. Sai Preeti, K. P. N. Murthy, V. S. S. Sastry, Ordered Structures in Hybrid Liquid Crystal Films: A Non – Boltzmann Monte Carlo Study at the conference ILCC 2006(SURFP-41), JULY 2- 7, 2006.
 3. G. Sai Preeti, K. P. N. Murthy, V. S. S. Sastry, Anchoring Transition and Influence Of Director Fluctuations in Liquid Crystal Droplets (SURFP 17), ILCC 2006, Colorado, USA.
 4. G. Sai Preeti, N. Sathyavathi, K. P. N. Murthy, V. S. S. Sastry, Anchoring Transitions in a Liquid crystals Droplet’, ‘B33’, DAE Solid State Physics Symposium, Mysore, 2007.
 5. G. Sai Preeti, V. Vijay Kumar, K. P. N. Murthy, V. S. S. Sastry, Monte Carlo study of radial and axial ordering in cylindrical films of liquid crystal at the International conference on Materials for Advanced Technologies 2007 (ICMAT 2007) symposium O during the period 1-6 July 2007 held at Singapore (Oral presentation).
 6. C. Chiccoli, S. P. Gouripeddi, P. Pasini, K. P. N. Murthy, V. S. S. Sastry and C. Zannoni, Hybrid Nematic film: A detailed Monte Carlo Investigation, 8th National meeting of Italian Liquid Crystal Society (SICL), at Acitrezza, Italy, June 4-7, 2008.
 7. G. SaiPreeti, C.Chiccoli, P. Pasini, K. P. N. Murthy, V. S. S. Sastry and C. Zannoni, poster presentation at the 15th National Liquid Conference on Liquid Crystals held at the Indian Institute of Sciences, Bangalore, India, during the period 13-15th October 2008 titled Phase diagram of a biaxial liquid crystal: A Monte Carlo study.
 8. G. Sai Preeti, C.Chiccoli, P. PasiniK. P. N. Murthy, V. S. S. Sastry and C. Zannoni, Structure and transitions in a Hybrid film of biaxial liquid crystals, Conference on Mesogenic and Ferroic Materials (CMFM09) held at Varanasi during the period 9 – 11 January 2009.
 9. G. Sai Preeti, C. Chiccoli, P.Pasini, R. Berardi and C. Zannoni, Monte Carlo Study of Defects in Biaxial Liquid Crystals, an oral presentation in the International liquid crystals conference during the period 11-16th July 2010.
 10. G. Sai Preeti, An oral presentation at the International workshop on scientific computing 2010 titled Monte Carlo simulation of Liquid crystals during the period 11-13th Dec 2010 at the Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam.
 11. G. Sai Preeti, K. P. N. Murthy, V. S. S. Sastry, Simulation Study of Biaxial Liquid Crystals Confined in Stripe Patterned Substrates, an oral presentation in the National liquid crystal conference, Manipal institute of Technology, Manipal, India during the period 16th to 18th Dec 2013.
 12. M. Ramakrishna, G. Sai Preeti, V.S.S.Sastry, Monte Carlo Study of In-Plane Switching in Confined Liquid Crystal System, a poster presentation in the 20th National liquid crystal conference, Manipal institute of Technology, Manipal, India during the period 16th to 18th Dec 2013.
 13. Abdul Musavir, G. Sai Preeti, V.S.S.Sastry; The effect of elastic constants in a confined thin film: Monte Carlo Study, a poster presentation in the 20th National liquid crystal conference, Manipal institute of Technology, Manipal, India during the period 16th to 18th Dec 2013.
 14. Sai Preeti Gouripeddi, Vijayanandhini Kannan, Vanaja Mahadasu Tutorials in Engineering Physics Using Cooperative Learning: A Reflective Introspection', The 18th IEEE International Conference on Advanced Learning Technologies, during the period Jul 09 to 13, 2018 – a poster presentation
 15. Sai Preeti Gouripeddi and Vijayanandhini Kannan, 'Collaborative Learning in Engineering Physics Tutorials', 2018 IEEE Tenth International Conference on Technology for Education (T4E), 10 -13 Dec. 2018 – a oral presentation.
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16. A oral presentation 'Student Perceptions on Moodle quizzes in Engineering Physics' at a two Day National Seminar on Innovative Practices and Research in the era of Digi Education on 21-22 March 2019 organised by department of education and education technology, University of Hyderabad.

17. Poster presentation on Score-Concentration analysis of Multiple Choice Quiz – A tool to plan Physics teaching strategy in Undergraduate course, Women In Learning and Leadership (IcWILL 2022), 08-09 March, 2022
18. Poster presentation Innovation in Science Education – A Guided Lab Outside of the Institutional Boundaries, International LET-IN 2022 conference, Oct 6-8, 2022.
19. Poster presentation at IUPAP International Conference on Physics Education 2022 (ICPE 2022): A TOOL TO STRATEGISE UNDERGRADUATE PHYSICS TEACHING. Dec 2022.

Conference Organised:

1. Part of the core committee in organising a conference, 'Physics and Chemistry of Functional materials 2019' Feb 21-22, 2019 by the department of Physics, GITAM – Hyderabad.
2. One week virtual hands on Workshop on Blended Learning: Design and Practice, 16-22 June 2020.

Faculty Development Programs

1. A four-week workshop on Blended Learning Practice by Common Wealth of Learning and Athabasca University, Canada, April – May 2020.
2. Five Week Online offered jointly by the commonwealth of learning and Athabasca University Canada on Introduction to technology-enabled learning November 2019.
3. Thirteen days Instructor-led online Faculty Development Program on "Productivity tools for teaching Enhancement" 3rd to 16th April 2020.
4. Mentoring Educators in Educational Technology offered by IIT Bombay, May – June 2018.
5. ET702x: Designing learner-centric MOOCs offered by IIT Bombay, August 2018.
6. ET701x: Elements of Learner-Centric MOOCs, offered by IIT Bombay, May 2018
7. Use of ICT in Education for Online and Blended Learning conducted by IIT Bombay May - July 2016.
8. Educational Technology for Engineering Teachers conducted by IIT Bombay (Jan-March 2016)
9. Technical Communication for Scientists and Engineers conducted by IIT Bombay (Oct – Dec 2015)
10. Short term training program in Engineering Physics conducted by IIT Bombay, Dec 2015
11. Enhancing English Language skills, by GITAM- Hyderabad, Jan – April 2018.

Conference and Workshops

1. Attended the conference ICCE 2016 conducted at IIT Bombay Dec 2016
2. Attended the T4E 2016 conference held at IIT Bombay Dec 2016
3. An international conference, 'STATPHYS 22' held at the Indian Institute of Sciences, Bangalore, India, during the period Jul 4-9th 2004.
4. One-week workshop conducted by CDAC at the University of Hyderabad, 'paracomp-UofHyd 2004', on parallel computing using MPI and Open MP. Practical classes were conducted on the Erragada IBM cluster at the Center for Modeling, Simulation and Design at the University of Hyderabad.
5. Invited for a week's training at the CMC, Pune, India for parallel computing and setting up of a Linux cluster.
6. A workshop held by the CDAD Pune in teaching to set up Linux cluster using tools like ROCKS and OSCAR at the Center of Modeling, Simulation and Design, University of Hyderabad, 2005.

7. An international conference on statistical mechanics of plasticity and related instabilities 'SMPRI 2005' held at Material Research Centre, Indian Institute of Sciences, Bangalore, India. August 29th 2005 – September 2nd 2005.

8. An international conference NexGen IT for SAI, organized by Sri Sathya Sai University, Prasanthi Nilayam, Andhra Pradesh, India. July 15-17, 2006.
9. The Conference on Disorder, Complexity and Biology II (DISCOMB09) was held at Varanasi from 5 – 8 January 2009.
10. Training in using the PBS scheduler and working of the Silicon graphics computer systems at the centre for modelling simulation and design, university of Hyderabad(2011).
11. Training in using the PBS scheduler and working of the Silicon graphics computer systems at the centre for modelling simulation and design, university of Hyderabad(2011).

PhD thesis

Monte Carlo Study Of Confined Liquid Crystals: Films, Droplets and Biaxial Nematics. supervisors

Prof. V. S. S. Sastry, University of Hyderabad

description

- Computer simulation methods of liquid crystals are efficient tools to study complex molecular structures in interesting soft materials like confined liquid crystals with specific boundary conditions. Monte Carlo methods and Metropolis algorithm, were used to construct canonical ensembles (Boltzmann sampling) to study the systems in detail.
- Study of thin films of nematic liquid crystals constrained in antagonistic boundary conditions stressing on the different structure and transition using both Boltzmann and non-Boltzmann Monte Carlo techniques.
- Study of a nematic liquid crystal systems using a lattice model with the elastic constants in built in the model using Monte Carlo methods. A polymer dispersed liquid crystal with radial anchoring showed that there was always a very sharp anchoring transition occurring with the change in the anchoring strength of the substrate from an axial to a radial.
- A detailed Monte Carlo study of biaxial nematics lattice model for the different transitions and the phase diagram that occur with the change in the biaxial parameters and such systems under confinement. A phase diagram was proposed with the change in the biaxial parameters and two transitions were observed for some values of the parameters.

Master thesis

Electrical Simulation of Biological Oscillator – Glycolytic Oscillator

supervisors Prof. V. Devarajan, Pondicherry Central University

description

Glycolysis provides a classical system to study metabolic oscillations. The cells stores glucose as a high weight polymer such as starch, glycogen and when energy demand sudden increase, glucose is realized quickly from these intracellular polymers and used to produce ATP (Adenine Tri Phosphate) either aerobically or anaerobically The Glycolytic dynamics in yeast can be studied with the help of a coupled differential equation. Using these equation the oscillator can be simulated using a programming language or electronically. This oscillator was simulated using MATLAB package. Electronically, a feedback oscillator was built using the standard AD 741 and AD6 33 and analyzed. It was seen that both the computer simulation and electronic simulations were comparable

Computer Skills

Operating systems : Windows, Linux

Languages: FORTRAN, C, computing with MPI and OPENMP Packages:

Origin, Maple, X Maxima, Lammmps, qmga, LAB view