Ritesh Kumar



August 2017 – January 2022

July 2015 - July 2017

July 2012 - April 2015

January 2022 - Present

CONTACT INFORMATION Pritzker School of Molecular Engineering, University of Chicago

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Profile link: https://aiscience.uchicago.edu/ritesh-kumar/ Personal website: https://ritesh001.github.io/ai4en/

EDUCATION

PROFESSIONAL

EXPERIENCE

Ph.D. in Materials Science

Indian Institute of Science, Bangalore, India

Advisor: Prof. Abhishek Singh

Thesis: Rational design of efficient catalysts using first-principles and machine

learning

M.S. in Chemical Science

Indian Institute of Science, Bangalore, India

Advisor: Prof. Abhishek Singh

Thesis: Earth-abundant electro- and photocatalysts as energy alternatives: An ab

initio study

B.Sc. in Chemistry (Honors)

Sri Venkateswara College (University of Delhi), New Delhi, India

First Division

University of Chicago, Pritzker School of Molecular Engineering

Eric & Wendy Schmidt AI in Science Fellow and Postdoctoral Scholar, Chibueze Amanchukwu's Lab

• Developed custom machine learning (ML) techniques for electrolyte discovery for next-generation batteries and built largest liquid electrolyte databases

· Enhanced Bayesian optimization technique for real-world discovery of electrolytes in data-scarce and noisy-label settings

· Developed generative AI and unsupervised frameworks for molecular discovery by overcoming bias associated with explored region of chemical spaces.

· Elucidated atomistic insights into experimental electrolyte performance for nextgeneration batteries using ab initio molecular dynamics (MD)

· Formulated inexpensive computational descriptors through MD simulations to explain aprotic electrolyte effects in key industrial reactions (CO₂/CO reduction)

· Co-developed a software AtomBridge for automated conversion of STEM images to crystal structures using LLMs and computer vision: https://github.com/dpalmer-anl/AtomBridge

• Led development of a software curAItor-agent for automated scientific data extraction using LLMs and AI agents: https://github.com/ritesh001/curaitor-agent

Indian Institute of Science, Materials Research Centre

Graduate Research Student (Ph.D. and Master's), Abhishek Singh's Lab • Developed robust design principles using quantum mechanical density functional

theory (DFT) for efficient heterogeneous catalysts in key industrial reactions such as solar hydrogen production, ammonia synthesis, and artificial photosynthesis

• Demonstrated atomistic origin of efficient catalysts for fuel cells, CO2 electroreduction, hydrogen generation among others, in collaboration with experimentalists

· Designed novel nanomaterials for electronic and spintronic applications based on

 Introduced governing principles for nanomaterial stability in photocatalysis using interpretable ML for the first time, contributing to a publicly accessible database at https://anant.mrc.iisc.ac.in/apps/2D

Indian Institute of Technology, Ropar, Department of Chemistry Summer Undergraduate Research Fellow, Narinder Singh's Lab

· Designed and analyzed supramolecular organic-inorganic hybrid nanoparticles using flourescence spectroscopy and cyclic voltammetry for chemical sensors

August 2016 - January 2022

May 2014 - July 2014

Publications († denotes equal contribution) 22. P. Ma[†], **R. Kumar**[†], K.-H. Wang, C. V. Amanchukwu, "Active learning accelerates electrolyte solvent screening for anode-free lithium metal batteries." *Nat. Commun.* 16, 8396 (2025).

- H. Fejzic, R. Kumar, R. J. Gomes, L. He, T. J. Houser, J. Kim, N. Molten, C. V. Amanchukwu. "Water Clustering Modulates Activity and Enables Hydrogenated Product Formation during Carbon Monoxide Electroreduction in Aprotic Media." J. Am. Chem. Soc. 147, 18445-18459 (2025).
- 20. **R. Kumar**, M. C. Vu, P. Ma, C. V. Amanchukwu. "Electrolytomics: A Unified Big Data Approach for Electrolyte Design and Discovery." *Chem. Mater.* 37, 2720-2734 (2025).
- R. J. Gomes, R. Kumar, H. Fejzic, B. Sarkar, I. Roy, C. V. Amanchukwu. "Modulating Water Hydrogen Bonding within a Nonaqueous Environment Controls its Reactivity in Electrochemical Transformations" Nat. Catal. 7, 689-701 (2024).
- E. S. Doyle, P. Mirmira, P. Ma, M. C. Vu, T. Hixson-Wells, R. Kumar, C. V. Amanchukwu. "Phase Morphology Dependence of Ionic Conductivity and Oxidative Stability in Fluorinated Ether Solid-State Electrolytes." *Chem. Mater.* 36, 5063-5076 (2024).
- 17. P. Ma, **R. Kumar**, M. C. Vu, K.-H. Wang, P. Mirmira, C. V. Amanchuwku. "Fluorination promotes lithium salt dissolution in borate esters for lithium metal batteries." *J. Mater. Chem. A* 12, 2479-2490 (2024).
- P. V. Sarma[†], R. Nadarajan[†], R. Kumar, R. M. Patinharayil, N. Biju, S. Narayanan, G. Gao, C. S. Tiwary, M. Thalakulam, R. Kini, A. K. Singh, P. M. Ajayan, M. Shaijumon. "Growth of Highly Crystalline Ultrathin Two-Dimensional Selenene." 2D Mater. 9, 045004 (2022).
- R. Das, S. Sarkar, R. Kumar, S. D. Ramarao, A. Cherevotan, M. Jasil, C. P. Vinod, A. K. Singh, S. C. Peter. "Noble-Metal-Free Heterojunction Photocatalyst for Selective CO₂ Reduction to Methane upon Induced Strain Relaxation." ACS Catal. 12, 687-697 (2022).
- 14. L. Sharma[†], N. K. Katiyar[†], A. Parui[†], R. Das, **R. Kumar**, C. S. Tiwary, A. K. Singh, Aditi Halder, Krishanu Biswas. "Low-Cost High Entropy Alloy (HEA) for High-Efficiency Oxygen Evolution Reaction (OER)." *Nano Res.* 15, 4799-4806 (2022).
- R. Kumar, and A. K. Singh. "Chemical Hardness-Driven Interpretable Machine Learning for Rapid Search of Photocatalysts." NPJ Comput. Mater. 7, 1-13 (2021).
- 12. S. Agarwal, **R. Kumar**, R. Arya, and A. K. Singh. "Rational Design of Single-Atom Catalysts for Enhanced Electrocatalytic Nitrogen Reduction Reaction." *J. Phys. Chem. C* 125, 12585–12593 (2021).
- 11. **R. Kumar**, and A. K. Singh. "Electronic Structure Based Intuitive Design Principle of Single-Atom Catalysts for Efficient Electrolytic Nitrogen Reduction." *ChemCatChem* 12, 5456–5464 (2020).
- R. Nandan, R. Hemam, R. Kumar, A. K. Singh, C. Srivastava, and K. K. Nanda. "Inner Sphere Electron Transfer Promotion on Homogeneously Dispersed Fe-N_X Centres for Energy Efficient Oxygen Reduction Reaction." ACS Appl. Mater. Interfaces 12, 36026–36039 (2020).
- 9. P. Sarma, T. V. Vineesh, **R. Kumar**, V. Sreepal, A. K. Singh, and M. Shaijumon. "Nanostructured Tungsten Oxysulfide as an Efficient Electrocatalyst for Hydrogen Evolution Reaction." *ACS Catal.* 10, 6753–6762 (2020).
- 8. K. Urs[†], N. K. Katiyar[†], **R. Kumar**, K. Bishwas, A. K. Singh, C. S. Tiwary, and V. B. Kamble. "Multi-component (Ag-Au-Cu-Pd-Pt) Alloy Nanoparticles Decorated p-type 2D-Molybdenum Disulphide (MoS₂) for Enhanced Hydrogen Sensing" *Nanoscale* 12, 11830–11841 (2020).
- 7. N. K. Katiyar[†], S. Nellaiappan[†], **R. Kumar**[†], K. D. Malviya, K. G. Pradeep, A. K. Singh, S. Sharma, C. S. Tiwary, and K. Bishwas. "Formic Acid and Methanol Electro-oxidation and Counter Hydrogen Production Using Nano High Entropy Catalyst." *Mater. Today Ener.* 16, 100393 (2020).
- S. Nellaiappan[†], N. K. Katiyar[†], R. Kumar[†], A. Parui, K. D. Malviya, K. G. Pradeep, A. K. Singh, S. Sharma, C. S. Tiwary, and K. Bishwas. "High-Entropy Alloys as Catalysts for the CO₂ and CO Reduction Reactions: Experimental Realization." ACS Catal. 10, 3658–3663 (2020).
- S. Nellaiappan, R. Kumar, S. C., S Irusta, J. A. Hachtel, J. C. Idrobo, A. K. Singh, C. S. Tiwary, and S. Sharma. "Electroreduction of Carbon Dioxide into Selective Hydrocarbon at Low Overpotential using Isomorphic Atomic Substitution in Copper Oxide." ACS Sustainable Chem. Eng 8, 179–189 (2020).
- 4. R. K. Barik, **R. Kumar**, and A. K. Singh. "Topological Phases in Hydrogenated Group 13 Monolayers." *J. Phys. Chem. C* 123, 25985–25990 (2019).

3. **R. Kumar**, D. Das, E Munoz, and A. K. Singh. "Critical Sublattice Symmetry Breaking: A Universal Criterion for Dirac Cone Splitting." *J. Phys. Chem. C* 123, 23082–23088 (2019).

- A. P. Balan[†], S. Radhakrishnan[†], R. Kumar, R. Neupane, S. K. Sinha, L. Deng, C. A. de los Reyes, A. Apte, B. M. Rao, M. Paulose, R. Vajtai, C. W. Chu, G. Costin, A. A. Martí, O. K. Varghese, A. K. Singh, C. S. Tiwary, M. R. Anantharaman, and P. M. Ajayan, "A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite." *Chem. Mater.* 30, 5923–5931 (2018).
- R. Kumar, D. Das, and A. K. Singh, "C₂N/WS₂ Van der Waals Type-II Heterostructure as a Promising Water Splitting Photocatalyst." *J. Catal.* 359, 143–150 (2018).

Conference PROCEEDINGS

 S. A. Eshiemogie, R. Kumar, C. V. Amanchukwu, "Data Preprocessing and Machine Learning Modelling for Battery Electrolyte Discovery." 2024 Int. Conf. Sci., Eng. Bus. Driv. Sustain. Dev. Goals (SEB4SDG) (2024) (https://doi.org/10.1109/seb4sdg60871.2024.10630085).

PREPRINTS/ MANUSCRIPTS SUBMITTED

- 3. **R. Kumar**[†], K.-H. Wang[†], C. V. Amanchukwu, "Using Electrolyte Solvent Embeddings to Guide Battery Electrolyte Discovery." *ChemRxiv* (2025) (https://doi.org/10.26434/chemrxiv-2025-7nnbl).
- 2. **R. Kumar**, K.-H. Wang, Z. Umlauf, C. V. Amanchukwu, "ElectroNN: Interpretable Deep Learning Framework for Accurate Property Prediction and Generation of Electrolytes.".
- 1. J. Kim, K.-H. Wang, **R. Kumar**, P. Ma, C. V. Amanchukwu, "Generative Electrolyte Solvent and Formulation Discovery.".

AWARDS AND HONORS

- 8. Selected for the Future Faculty Mentoring Program by American Institute of October 2025 Chemical Engineering (AIChE)
- 7. CAS Future Leader Top 100 Award by American Chemical Society (ACS) March 2025
- 6. Eric & Wendy Schmidt AI in Science Postdoctoral Fellow (Salary: \$80,000 per January 2023 January 2026 annum)
- 5. Selected for Oxford Research Software Engineering (OxRSE) Workshop at June 2024 & September 2025 University of Oxford, UK (travel grant; ~\$3000)
- 4. All India Rank 38 in IIT-Joint Admission test for Master's (IIT-JAM) Examination February 2015 (Scholarship: ₹16,000 per month during Master's at Indian Institute of Science)
- 3. IASc-INSA-NASI Summer Research Fellowship (organized by all three national May 2014 July 2014 academies of India) (Stipend: ₹8,000 per month)
- 2. Central Sector Scheme of Scholarship for College and University Students 2012 2015 (Scholarship: ₹10,000 per annum)
- 1. All-India Rank 54 in 2nd Nationwide Interactive Math Olympiad November 2007

Grants

AI+Science Research Initiative Fund

January 2024

Funding agency: Data Science Institute, University of Chicago, IL Project title: Self-driving battery lab to accelerate scientific discovery

Role: PI

Amount: \$10,000

University of Chicago Women's Board Grant Fund

June 2023

Funding agency: University of Chicago Women's Board

Project title: Artificial intelligence-guided autonomous high-throughput battery

manufacturing platform to accelerate scientific discoveries

Role: Co-I Amount: \$50,000

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12. "Accelerating liquid electrolyte discovery for next-generation batteries using September 2025 data-driven techniques." ZERO Institute Seminar, University of Oxford, OX, UK (Invited by Prof. David Howey) 11. "Accelerating electrolyte discovery for next-generation batteries." August 2025 Venkatasubramanian Viswanathan's Lab Group Meeting, University of Michigan, Ann Arbor, MI (Invited by Prof. Venkatasubramanian Viswanathan) 10. "Accelerating electrolyte discovery for batteries." 2025 MRS Spring Meeting April 2025 and Exhibit, Seattle, WA 9. "Powering Next-Generation Batteries through Data Science in Synergy with Sim-October 2024 ulations and Experiments." Faculty Candidates in CoMSEF, 2024 AIChE Annual Meeting, San Diego, CA 8. "Data-Driven Accelerated Discovery of Novel Battery Materials." Frontiers of October 2024 Machine Learning on Materials Discovery Symposium, MS&T24 Technical Meeting and Exhibition, Pittsburgh, PA (Invited by Dr. Rinkle Juneja) 7. "Accelerating realization of next-generation batteries through data-driven tech-September 2024 niques." Chemistry Colloquium, Illinois Institute of Technology, Chicago, IL (Invited by Prof. Yuanbing Mao) 6. "Graph neural networks for electrolytes." 2024 University of Chicago Schmidt September 2024 AI in Science Postdoctoral Fellows Retreat, North Utica, IL 5. "AI-driven discovery of efficient materials for next-generation batteries." Com-July 2024 putational Materials Science and Engineering Gordon Research Seminar (GRS), Sunday River, ME (**Invited by Prof. Aditya Nandy**) 4. "Realizing next-generation batteries through AI and automation." April 2024 AI+Science Schmidt Fellow Speaker Series, University of Chicago, IL (Invited by Prof. Madeleine Torcasso) 3. "A Big Data Approach to Rational Design and Discovery of Electrolytes." 243rd May 2023 ECS Meeting, Boston, MA 2. "Chemical Hardness-Driven Interpretable Machine Learning for Rapid Search of December 2021 Photocatalysts." 2021 MRS Fall Meeting and Exhibit (Virtual) 1. "Electronic Structure Based Intuitive Design Principle of Single-Atom Catalysts April 2021 for Efficient Electrolytic Nitrogen Reduction." 2021 MRS Spring Meeting and Exhibit (Virtual) 10. "AI-driven realization of next-generation batteries." AI+Science Summer School July 2025 2025, Paris, France 9. "Accelerating Sustainable Energy Solutions through Data Science and Simula-October 2024 tions in Synergy with Experiments." Meet the Faculty and Post-Doc Candidates Poster Session, 2024 AIChE Annual Meeting, San Diego, CA 8. "Tackling Energy Conversion Challenges through Simulations in Synergy with October 2024 Experiments." Poster Session: Computational Molecular Science and Engineering Forum, 2024 AIChE Annual Meeting, San Diego, CA

Poster PRESENTA-TIONS

> 7. "In Silico Materials Design and Discovery for Electrocatalysis and Energy Stor-October 2024 age." Early career poster at AI for Multidisciplinary Exploration and Discovery (AIMED) Workshop on Heterogeneous Catalysis, Big Ten Conference Center, Rosemont, IL (Invited by Prof. Hongliang Xin)

TEACHING

EXPERIENCE

MENTORING

EXPERIENCE

6. "Achieving Sustainability through In Silico Materials Design and Discovery." July 2024 Computational Materials Science and Engineering Gordon Research Conference (GRC), Sunday River, ME 5. "How can AI Power Next-Generation Batteries?" 2023 University of Chicago September 2023 Schmidt AI in Science Postdoctoral Fellows Retreat, Lake Geneva, WI 4. "How can AI Power Next-Generation Batteries?" AI in Science Postdoctoral August 2023 Fellowship 2023 Inaugural Convening, University of Toronto, Canada 3. "Artificial Intelligence Powering Next-Generation Batteries." University of March 2023 Chicago and Caltech Conference on AI+Science, University of Chicago, IL 2. "C₂N/WS₂ Van der Waals Type-II Heterostructure as a Promising Water Splitting December 2019 Photocatalyst." Operando Surface Science - Atomistic Insights into Electrified Solid/liquid Interfaces Seminar, Bad Honnef, Germany 1. "C₂N/WS₂ Van der Waals Type-II Heterostructure as a Promising Water Splitting December 2018 Photocatalyst." Modelling and Simulations of Materials for Energy and Environment School, Jawaharlal Nehru Centre for Advance Scientific Research, Bangalore, India **University of Chicago** 2. Guest lecturer, Thermodynamics of phase equilibria October 2025 1. Guest lecturer, Energy conversion and storage devices March 2024 (Additionally served as a panel judge for student final presentations, providing critical feedback and assessments) **Indian Institute of Science** 2. Teaching assistant, Computational modeling of materials January - May 2020 (Developed and taught new hands-on course content, including comprehensive tutorials tailored to enhance practical learning, held weekly discussions, and graded exams) 1. Teaching assistant, Quantum chemistry and group theory August - December 2019 (Taught lectures, graded exams, and conducted exam performance review sessions) University of Chicago Undergraduates: 1. Arnav Brahmasandra (Computer Science) January 2023 - March 2024 2. Zoe Umlauf (Computer Science) January 2025 – June 2025 3. Leyou Gessessew (Data Science; Wellesley College; AI+Science Research Expe-June – August 2025 rience for Undergraduates (REU) Summer Lab Program) Master's: 3. Tarun Arora (Computer Science) June 2023 - March 2024 Ph.D.: 4. Jaemin Kim (Chemistry): Co-authored one manuscript and one under May 2023 - present review 5. Emily Doyle: Co-authored one publication May 2023 - present 2024 AI+Science Hackathon at University of Chicago May 2024 Team of mentees: Eric Desoiza (Statistics major track; undergraduate), Arnav Brahmasandra, Sida Li (Statistics; master's), Hilary Utaegbulam (Physics; University of Rochester & Fermilab Ph.D.) Outcome: Mentoring resulted in the development of an accurate graph neural network to predict force-field parameters for organic molecules, earning the team an honorable mention prize. RENEU program hosted by University of Chicago (remote) Undergraduate: 1. Stanley Eshiemogie (University of Benin, Nigeria): Mentored June 2023 - August 2023 a 10-week project on developing deep learning models for electrolyte property

prediction, resulting in a co-authored article in the IEEE conference proceedings

(current position: Ph.D. student at UChicago)

Indian Institute of Science

	Undergraduate: 1. Rakesh Arya (Chemistry major): Co-authored one publication and mentoring contributed to an undergraduate thesis	January 2018 – January 2019	
	Master's: 2. Arko Parui: Co-authored 2 publications and mentoring contributed to a master's thesis	August 2018 – July 2019	
	3. Pooja Gakhad: Mentoring contributed to a master's thesis	December 2020 – July 2021	
Professional development	2025 Oxford Research Software Engineering Workshop Location: Doctoral Training Centre, University of Oxford, UK Description: Led a team of 7 members to develop a graphical interface curaltor-agent for autonomous scientific data extraction using LLMs and AI agents (open-sourced at https://github.com/mmore500/curaitor) Travel fund: Schmidt Sciences, New York, NY	September 2025	
	2025 LLM Hackathon for Applications in Materials Science & Chemistry Location: Virtual	September 2025	
	Description: Co-developed a tool AtomBridge for scientific automated conversion of STEM images to crystal structures using LLMs and computer vision (open-sourced at https://github.com/dpalmer-anl/AtomBridge) Award: 2025 Visionary Award		
	Teaching in the Generative AI Landscape Location: University of Chicago, IL	September 2024	
	Description: Workshop on enhanced student learning strategies using generative AI		
	2024 Oxford Research Software Engineering Workshop Location: Doctoral Training Centre, University of Oxford, UK Description: Co-developed a graphical interface curAltor for scientific data extraction using LLMs (open-sourced at https://github.com/mmore500/curaitor) Travel fund: Schmidt Sciences, New York, NY	June 2024	
	Academic Job Market Summer Camp	July 2023	
	Location: University of Chicago, IL Description: Workshop on writing effective application materials for faculty jobs		
Professional	American Institute of Chemical Engineers (AIChE)	2025 – 2026	
MEMBERSHIPS	American Institute of Chemical Engineers (AIChE) The Electrochemical Society (ECS)	2024 – 2025 2023 – 2024	
	Materials Research Society (MRS)	2020 – 2022	
COMPUTING ALLOCATIONS	National Science Foundation (NSF) ACCESS Role: PI		
	Award (system & CPU/GPU hours & estimated value): 2. Discovery allocation (Purdue Anvil AI & GPU: 1000 & \$234.51)	October 2025	
	1. Discovery allocation (Purdue Anvil & CPU: 625,000 & \$2,600.00)	October 2024	
	Research Computing Center, University of Chicago Role: PI		
	Award (system & CPU hours): 3. Research allocation (Midway & 100,000) 2. Research allocation (Midway & 100,000) 1. Startup allocation (Midway & 10,000)	October 2025 October 2024 August 2024	
Service & outreach	16. Reviewer, Nature Communications (1), ACS Applied Energy Materials (1), Digital Discovery (4), Journal of Open Source Software (2), and Catalysts (1)	November 2024 – October 2025	
	15. Organizer, 2024-25 AI+Science Schmidt Fellows Speaker Series, University of Chicago, IL (Revised second edition of the seminar series based on feedback and invited Prof. Aaron Dinner from University of Chicago Chemistry, Prof. Claire Donnat from University of Chicago Statistics, and Prof. Chibueze Amanchukwu)	October 2024 – May 2025	

14. Session chair, Frontiers of Machine Learning on Materials Discovery Symposium, MS&T24 Technical Meeting and Exhibitio, Pittsburgh, PA (Invited by Dr. Rinkle Juneja)	October 2024
13. Discussion leader, <i>Computational Materials Science and Engineering Gordon Research Seminar</i> , Sunday River, ME (Invited by Prof. Aditya Nandy)	July 2024
12. Session chair and organizer, 2024 AI+Science Summer School, University of Chicago, IL (Co-developed program for an multidisciplinary summer school for undergraduate and graduate students and postdocs, reviewed their applications, and invited Prof. Pedram Hassanzadeh from University of Chicago Geophysics, Dr. Zachary Ulissi from Meta FAIR, Dr. Muratahan Aykol from Google DeepMind)	July 2024
11. Reviewer, US DOE Office of Science Graduate Student Research (SCGSR) program's 2024 Solicitation 1 (reviewed 3 Ph.D. student proposals)	June 2024
10. Organizer, 2024 AI+Science Hackathon, University of Chicago, IL (Co-created hackathon, fostering a collaborative problem-solving in scientific AI)	May 2024
9. Resource person, "Introduction to use of AI in teaching and learning." <i>Workshop on AI for teaching & learning</i> , Sri Venkateswara College, India (Presented 3 hourslong tutorial for workshop attended by >80 faculties) (Virtual, Invited by Prof. Sharda Pasricha)	May 2024
8. Technical blogger, "Unlocking the Potential of Lithium Batteries with New Electrolyte Solutions", Data Science Institute Insights, University of Chicago, IL (https://datascience.uchicago.edu/insights/unlocking-the-potential-of-lithium-batteries-with-new-electrolyte-solutions/)	February 2024
7. Moderator and organizer, 2023-24 AI+Science Schmidt Fellows Speaker Series, University of Chicago, IL (Co-developed and moderated a seminar series, enhancing academic dialogue and networking among scholars and invited Dr. Logan Ward from Argonne National Laboratory)	October 2023 – May 2024
6. Discussion leader, <i>Postdoc Program Leaders Community Forum</i> , organized by National Postdoctoral Association (NPA) (Virtual, Invited by Thomas P. Kimbis)	August 2023
5. Moderator, 2023 AI+Science Summer School, University of Chicago, IL	July 2023
4. Judge, <i>Students Slam Contest at 243rd ECS Meeting</i> , Boston, MA (Invited by Prof. Lin Ma and Prof. Betar Gallant)	May 2023
3. Demonstration volunteer, Battery fabrication demonstration at <i>Science Works</i> , Museum of Science and Industry, Chicago, IL	October 2022
2. Incharge, High-performance computing facilities (hardware & software) at Materials Research Centre, Indian Institute of Science, Bangalore	August 2018 – July 2020
1. Demonstration volunteer, 2018 IISc Open day, Institute of Science, Bangalore	March 2018