

Gagandeep Kaur, Ph.D.

Assistant Professor, Biomaterial Scientist, Stem cell engineer, Educator

525 College Street NW
Department of Chemistry
Howard University
Washington, DC 20059

www.gagandeepkalsi.com
gagandeep.kaur1@howard.edu
202-250-6379
[LinkedIn](#)

EDUCATION

Indian Institute of Technology Kanpur

Kanpur, India

Ph.D. in Chemistry and Biochemistry

2011-2017

- Title of Dissertation: "Ordered Peptide-based Assemblies as Functional Materials"
- National Organic Symposium Trust (NOST) Best Thesis Award

Panjab University

Chandigarh, India

Master of Science (M.Sc.), Organic Chemistry

2007-2009

- Gold medallist, 1st Rank in University

Panjab University

Chandigarh, India

Bachelor of Science (B.Sc.)

2004-2007

- Major in biology, minor in chemistry

PROFESSIONAL EXPERIENCE

Howard University

Washington, DC

Co-Director, NHC-COAS Humanities/STEM Summer Institute 2026

Sep 2025-Present

- Co-leading development of the Institute's vision, programming, scholar review, participant selection, and evaluation.
- Managing budgeting, logistics, and national communications in collaboration with Howard University and NHC teams.

Howard University

Washington, DC

Assistant Professor (Affiliate), Department of Chemical Engineering

July 2024-Present

Howard University

Washington, DC

Assistant Professor (Tenure-track), Department of Chemistry

Aug 2022-Present

[Kaur Lab @Howard](#) focuses on:

- Designing and engineering advanced biomaterials with customized physical, chemical, and biological properties to support stem cell engineering and regenerative medicine.
- Characterizing these biomaterials using state-of-the-art analytical, mechanical, and biological assays to understand their structure–function relationships and optimize their therapeutic performance.
- Developing and applying stem-cell–derived extracellular vesicle (EV)–based therapies, with an emphasis on improving EV production, purification, and functional efficacy.

- Investigating the application of biomaterials and EV-based strategies for the treatment of autoimmune diseases and cancers, including understanding mechanisms of immune modulation and tumor targeting.
#Biomaterials #Polymers #Peptides #Stem Cell Engineering #Extracellular Vesicles #Autoimmunity #Cancer #Drug Delivery

Texas A&M University

Postdoctoral research associate, College of Medicine

NIH-Funded Research Project:

- Focused on the therapeutic potential of mesenchymal stem cell (MSC)-derived extracellular vesicles (EVs).
- Investigated strategies for delivering complex biomolecules such as miRNAs, proteins, and other bioactive compounds via MSC-derived EVs.
- Explored the application of MSC-EVs in the treatment and prevention of autoimmune diseases, including experimental autoimmune uveitis (EAU), diabetes, and Sjögren's Syndrome.
- Advisor: Prof. Darwin Prockop (retired) and Prof. Ryang-Hwa Lee

College Station, TX

June 2019-Aug 2022

Texas A&M University

Postdoctoral research associate, College of Pharmacy

NIH-Funded Research Project:

- Focused on engineering smart polymer nanoparticles equipped with noncompetitive ligands to target transferrin receptors in the intestine.
- Optimized these nanoparticles to improve gastrointestinal barrier permeability, enabling more efficient delivery of drugs and biomolecules.
- Investigated the therapeutic potential of this technology for treating diseases such as diabetes, diabetic retinopathy, and lupus.
- Advisor: Prof. Ravikumar Majeti

College Station, TX

Nov 2017-May 2019

Indian Institute of Technology Kanpur

Project Scientist, Department of Chemistry

Department of Science & Technology (DST)-Funded Research Project:

- Developed self-assembling peptides to enable morphology modulation through spin-coating techniques.
- Designed self-assembling peptides nanomachines for precise, targeted drug delivery applications.
- Advisor: Prof. Sandeep Verma

Kanpur, India

May 2017-Oct 2017

Indian Institute of Technology Kanpur

University Grants Commission (UGC) Graduate Research Fellow, Department of Chemistry

- My doctoral research focused on designing synthetic self-assembling biomaterials using small peptides and polymers for applications in biology and nanotechnology.
- Invented peptide-coated polymer nanomats via electrospinning for differential detection of cancerous (HeLa) and non-cancerous (HEK 293) cells; *Patent granted.*

Kanpur, India

Jan 2011-Apr 2017

- Developed folic acid-based peptide nanoarchitectures to study transport mechanisms in cancer cells (HeLa, MCF-7, H460).
- Successfully crystallized a Pyridyl-bis-L-phenylalanine-L-phenylalanine conjugate–Cu (II) complex for the first time, enabling structural characterization and mechanistic insights of novel metal-peptide framework (MPFs).
- Advisor: Prof. Sandeep Verma

AWARDS AND HONORS

❖ Travel award to attend International Society for Extracellular Vesicles (ISEV) Annual Meeting 2026	2026
❖ Travel award to attend Humanity Unlocking Biomaterials (HUB)	2026
❖ Annual Biomedical Research Conference for Minority Students (ABRCMS), Judge travel award	2025
❖ Howard University College of Arts and Sciences (COAS) Summer Faculty Fellowship	2024
❖ Annual Biomedical Research Conference for Minority Students (ABRCMS), Judge travel award	2024
❖ Hamilton Company Syring Grant	2024
❖ Hamilton Company Pipette Grant	2023
❖ Texas A&M Health professional development award	2021
❖ Bridge Project-American Chemical Society (ACS) Career Kick-Starter (CKS) workshop	2020
❖ American Chemical Society (ACS) postdoc to faculty (P2F) workshop	2020
❖ Texas A&M Health Science Center (TAMHSC) postdoctoral professional development award	2018
❖ Travel award to attend 31 st International Symposium on Polymer Analysis and Characterization (ISPAC 2018)	2018
❖ SAILIFE- National Organic Symposium Trust (NOST) Best Thesis Award	2017
❖ Attended 67th Lindau Nobel Laureate meeting	2017
❖ Material Research Society-Singapore (MRS-S) funding to attend International Conference on Materials for Advanced Technologies (ICMAT 2017)	2017
❖ Travel award to attend 11th Australian Peptide Conference	2015
❖ University Grant Commission-Senior Research Fellowship (UGC-SRF)	2013-2016
❖ University Grant Commission-Junior Research Fellowship (UGC-JRF)	2011-2013
❖ Qualified National Eligibility Test (NET) in Chemical Sciences for research fellowship	2010
❖ Qualified National Eligibility Test (NET) in Chemical Sciences for lectureship	2009
❖ Innovation in Science Pursuit for Inspired Research (INSPIRE) Fellowship, Department of Science & Technology (DST), India	2009
❖ Gold Medal in Master of Science (M.Sc.) by Panjab University, Chandigarh	2009

PUBLICATIONS

A) Summary: (h-Index= 13, Citations= 1,821 [Google Scholar](#))

- Papers in peer reviewed journal 21

○ Book chapters	1
○ Patents	1
○ Invited lectures	5
○ Abstracts	23

B) Peer-reviewed publications, in press or published (* = corresponding author; # = equal contribution; † = highlighted)

1. Mondal, K*; **Kaur, G***; Advincola, R* “Advanced Silicone Materials for Soft Actuator Applications” *RSC Appl. Polym.* **2026**, 4,12-29. († [Featured on the cover](#))
2. Damus, B.; Amaeze, N., Yoo, E.; **Kaur, G.*** “Ethoxy Acetalated Dextran-Based Biomaterials for Therapeutic Applications” *Polymers* **2024**, 16, 2756.
3. **Kaur, G.**; Bae, E.; Zhang, Y.; Ciacciofera, N.; Barreda, H.; Paleti, C.; Oh, J. Y.; Lee, R. H. “Biopotency and surrogate assays to validate the immunomodulatory potency of extracellular vesicles derived from mesenchymal stem/stromal cells” *J. Extracell. Vesicles.*, **2024**, 13, e12497. († [media coverage: Vesiculab, Smart MCs](#))
4. Arjariya, R.; **Kaur, G.**; Sen, S. Verma, S.; Lackinger, M.; Gopakumar, T. “Kinetic Versus Thermodynamic Polymorph Stabilization of a Trimesic Acid Derivative at the Solid-Liquid Interface” *Nanoscale*, **2023**,15, 13393-13401.
5. Oh, J. Y.; Kim, H.; Lee, H. J.; Lee, K.; Barreda, H.; Kim, H. J.; Shin, E.; Bae, E. H.; **Kaur, G.**; Zhang, Y.; Kim, E.; Lee, J. Y.; Lee, R. H. “MHC class I enables MSCs to evade NK-cell-mediated cytotoxicity and exert immunosuppressive activity” *Stem cells*, **2022**, 40, 870-882.
6. Rogers, R.; Haskell, A.; White, B.; Dalal, S.; Lopez, M.; Tahan, D.; Pan, S.; **Kaur, G.**; Kim, H.; Barreda, H.; Woodard, S.; Dai, J.; Han, A.; Lee, R. H.; Kaunas, R., Gregory, C. "A Scalable System for Generation of Mesenchymal Stem Cells Derived from Induced Pluripotent Cells Employing Bioreactors and Degradable Microcarriers” *Stem Cells Transl. Med.*, **2021**, 10, 1650–1665.
7. Kim, H.; Zhao, Q.; Barreda, H.; **Kaur, G.**; Hai, B.; Choi, J. M.; Jung, S. Y.; Liu, F.; Lee, R. H. "Identification of Molecules Responsible for Therapeutic Effects of Extracellular Vesicles Produced from iPSC-derived MSCs on Sjögren’s Syndrome” *Aging Dis.* **2021**, 12, 1409-1422.
8. Bhandaru, N.; **Kaur, G.**; Panjla, A.; Verma, S. “Spin Coating Mediated Morphology Modulation in Self Assembly of Peptides” *Nanoscale*, **2021**,13, 8884-8892.
9. Thomas, A.#; **Kaur, G.#**; Verma, S. “Small Molecule Inhibitors for Amyloid Aggregation” In *Biological Soft Matter*; Nardin, C., Schlaad, H., Eds.; Wiley, **2021**; pp 153–193.
10. Kim, H.; Lee, M. J.; Bae, E.-H.; Ryu, J. S.; **Kaur, G.**; Kim, J. Y.; Kim, H. J.; Barreda, H.; Jung, S. Y.; Choi, J. M.; Shigemoto-Kuroda, T.; Oh, J. Y.; Lee, R. H. “Comprehensive Molecular Profiles of Functionally Effective Mesenchymal Stem/Stromal Cell-derived Extracellular Vesicles in Immunomodulation” *Mol. Ther.* **2020**, 28, 1628-1644.

11. **Kaur, G.**;[#] Arora, M.[#]; Ganugula, R.[#]; Kumar, M. N. V. R. "Double-headed nanosystems for oral drug delivery" *Chem. Commun.* **2019**, 55, 4761-4764. († [Featured on the back cover](#))
12. **Kaur, G.**; Arora, M.; Kumar, M. N. V. R. "Oral Drug Delivery Technologies-A Decade of Developments" *J. Pharmacol. Exp. Ther.* **2019**, 370, 529-543.
13. Arora, M.; Ganugula, R.; Kumar, N.; **Kaur, G.**; Pellois, J.-P.; Garg, P.; Kumar, M. N. V. R. "Next-generation non-competitive nanosystems based on gambogic acid: in silico identification of transferrin receptors binding sites, regulatory shelf-stability and their preliminary safety in healthy rodents" *ACS Appl. Bio Mater.* **2019**, 2, 3540-3550. († [Featured on the cover](#), † [media coverage](#): [DownToEarth](#); [BioTechTimes](#); [ResearchStash](#))
14. **Kaur, G.**; Kumari, S.; Saha, P.; Ali, R.; Patil, S.; Ganesh, S.; Verma, S. "Selective Cell Adhesion on Peptide–Polymer Electrospun Fiber Mats" *ACS Omega* **2019**, 4, 4376-4383.
15. Tomar, K.; **Kaur, G.**; Verma, S.; Ramanathan, G. "A Self-assembled tetrapeptide that acts as a "turn-on" fluorescent sensor for Hg²⁺ ions" *Tetrahedron Lett.* **2018**, 59, 3653-3656.
16. Mitra, S.; Kandambeth, S.; Biswal, B.; Khayum, A. M.; Choudhury, C.; Mehta, M.; **Kaur, G.**; Banerjee, S.; Prabhune, A.; Verma, S.; Roy, S.; Kharul, U.; Banerjee, R. "Self-Exfoliated Guanidinium-Based Ionic Covalent Organic Nanosheets (iCONs)" *J. Am. Chem. Soc.* **2016**, 138, 2823-2828.
17. Halder, A.; Kandambeth, S.; Biswal, B. P.; **Kaur, G.**; Roy, N. C.; Addicoat, M.; Salunke, J. K.; Banerjee, S.; Vanka, K.; Heine, T.; Verma, S.; Banerjee, R. "Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation" *Angew. Chem., Int. Ed.* **2016**, 55, 7806-7810.
18. **Kaur, G.**; Shukla, A.; Sivakumar, S.; Verma, S. "Soft structure formation and cancer cell transport mechanisms of a folic-acid dipeptide conjugate", *J. Pept. Sci.* **2015**, 21, 248-255. († [Special issue article invitation](#))
19. Das, G.; Biswal, B. P.; Kandambeth, S.; Venkatesh, V.; **Kaur, G.**; Addicoat, M.; Heine, T.; Verma, S.; Banerjee, R. "Chemical Sensing in Two Dimensional Porous Covalent Organic Nanosheets" *Chem. Sci.* **2015**, 6, 3931-3939.
20. **Kaur, G.**; Thomas, A.; Verma, S. "Heterocyclic scaffolds and carbohydrate appendages in synthetic peptides", *Indian J. Heterocycl. Chem.* **2015**, 24, 487-494.
21. **Kaur, G.**; Abramovich, L. A.; Gazit, E.; Verma, S. "Ultrastructure of metallopeptide- based soft spherical morphologies", *RSC Adv.* **2014**, 4, 64457-64465.

In review:

Arjariya, R.; **Kaur, G.**; Sen, S.; Parmar, D.; Verma, S.; Gopakumar, T. "Tuning the Percentage of Kinetic versus Thermodynamic Polymorph of Trimesic Acid Derivative at Solid-Air Interface"

C) Patents

Kaur, G.; Kumari, S.; Saha, P.; Patil, S., Ganesh, S.; Verma, S. "Electrospun Fibrous Nanomat Composition and a Method of Synthesizing the same" *Indian Patent no.* **424826**

D) Invited Seminars

1. Kaur, G. "Next-Generation Biomaterials in the Management of Autoimmunity" at [International Research Convention \(IRC-2026\)](#), titled "*Chemistry for a Sustainable Future: Molecules to Materials*" at IIS (deemed to be University), Jaipur, India, virtual talk (Feb 13–14, 2026).
2. Kaur, G. "Mesenchymal Stem Cell-Derived Extracellular Vesicles for Autoimmune Uveitis Treatment" Department of Chemistry, The Georgetown University, Washington DC (Oct 23, 2025).
3. Kaur, G. "Mesenchymal stem cell-derived extracellular vesicles ameliorate experimental autoimmune uveitis in mice via suppressing retinal reactive T cell Infiltration" Amgen-Howard Day, Amgen, Rockville Site, MD (Aug 8, 2025).
4. Kaur, G. "Advanced Biomaterials for Oral Drug Delivery" Invited talk, Department of Materials Science and Engineering, Rutgers University, NJ (Dec 10, 2024).
5. Kaur, G. "Mesenchymal stem cell-derived extracellular vesicles ameliorate experimental autoimmune uveoretinitis in mice via suppressing autoreactive T cell infiltration" Invited Lecture in 'Recent Advances in Nano Medical Sciences (RANMS 2022), virtual event, University of Delhi (Jun 22–23, 2022).

E) Conferences In Attendance

1. Oral Presentation "Biopotency and surrogate assays to validate the immunomodulatory potency of extracellular vesicles derived from mesenchymal stem/stromal cells for the treatment of experimental autoimmune uveitis" Howard Research Month 2026 (Apr 30, 2026).
2. Oral Presentation "Biopotency and surrogate assays to validate the immunomodulatory potency of extracellular vesicles derived from mesenchymal stem/stromal cells for the treatment of experimental autoimmune uveitis" *International Society for Extracellular Vesicles (ISEV) 2026 Annual Meeting*, San Juan, Puerto Rico (Apr 22-26, 2026).
3. Oral Presentation "Mesenchymal Stem Cell-Derived Extracellular Vesicles for Autoimmune Uveitis Treatment" *Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS 2025)*, San Antonio, TX (Nov 19–22, 2025).
4. Attended *American Chemical Society (ACS) Fall Meeting 2025*, Washington DC (Aug 17–21, 2025).
5. Attended *Howard Annual Research Symposium*, Howard University, Washington DC (Apr 24–25, 2025).
6. Attended *Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS 2024)*, Pittsburgh, PA (Nov 13–16, 2024).
7. Attended *Howard Annual Research Symposium*, Howard University, Washington DC (Apr 24–25, 2024).
8. Oral Presentation "Diagnostic and Therapeutic Potential of Engineered Extracellular Vesicles" *Howard Research Month event* (Apr 18, 2023) and Attended *Howard Annual Research Symposium*, Howard University, Washington DC (April 27–28, 2023).
9. Poster Presentation, 30th Annual Susan M. Arseven '75 Conference for Women in Science and Engineering (Feb 26, 2022, virtual event).
10. Oral Presentation "Mesenchymal stem cell-derived extracellular vesicles ameliorate experimental autoimmune uveoretinitis in mice via suppressing autoreactive T cell infiltration" *virtual event*, Texas A&M University, College Station, TX (Sep 30, 2021).
11. Attended *European Chemical Biology Symposium 2021*, *virtual event* (May 26–28 2021).
12. Oral Presentation "Translocation of complex molecules across the gastrointestinal barrier" *BioMed X boot camp*, *virtual event* (May 16–20, 2021).
13. Poster presentation "Double-headed nanosystems for Oral drug delivery" at annual *Empowering Women in Organic Chemistry Conference (EWOC 2020)*, *virtual event* (Aug 13 –14, 2020).
14. Oral Presentation "Double-headed nanosystems for oral drug delivery" at *Indo-German 2019 workshop*, Germany (Sep 16–20, 2019) (https://www.uni-due.de/imperia/md/images/ak-schrader/g_kaur.png).

15. Poster presentation "Design and development of double-headed nanosystems: Oral drug delivery applications" at *American Chemical Society (ACS) Spring meeting*, Orlando, USA (Apr 31–4, 2019).
16. Oral Presentation "Selective Cell Adhesion on Peptide-Polymer Nano-Fiber Mats" *International Symposium on Polymer Analysis and Characterization (ISPAC 2018)* (June 3–6, 2018) (<https://ispac-conferences.org/ISPAC-2018-travel-award-program-.aspx>).
17. Oral Presentation "Dityrosine folic acid conjugate in electrospun nanofibres for selective cell adhesion" at *International Conference on Materials for Advanced Technologies (ICMAT 2017)*, Singapore (June 18–23, 2017).
18. Attended 67th *Lindau Noble Laureates Meeting* at Lindau, Germany (June 25–30, 2017).
19. Poster presentation "Soft structure formation and cancer cell transport mechanisms of a folic-acid dipeptide conjugate" at *Research scholar day* held at Indian Institute of Technology Kanpur, India (Feb 27, 2016).
20. Poster presentation "Ultrastructure of metallopeptide-based soft spherical morphologies" at 11th *Australian Peptide Conference* held at Kings-cliff, Australia (Oct 25–30, 2015).
21. Poster presentation "Soft structure formation and cancer cell transport mechanisms of a folic-acid dipeptide conjugate" at 5th *Indian Peptide symposium* held at JNCASR Bangalore, India (Sep 24–25, 2015).
22. Poster presentation "Ultrastructure of metallopeptide-based soft spherical morphologies" at the 10th *J-NOST conference* held at Indian Institute of Technology, Madras, India (Dec 4–6, 2014)
23. Poster presentation "Metal ion mediation in Self-assembling Peptides" at *Indian Peptide Society Satellite Symposium* held at CSIR-IMT, Chandigarh (Feb 21, 2014).
24. Poster presentation "Metal ion mediation in Self-assembling Peptides" at the 5th *Annual Retreat Conference*, Konstanz Research School Chemical Biology 2013 held at Gltstein, Germany (Aug 14–16, 2013)

MENTORSHIP AND TEACHING EXPERIENCE

Zachariah Bess, Graduate student, HU, Washington DC	2026-Present
Diana Kutai, Honors Undergraduate student, HU, Washington DC	2025-Present
Ulyssa Chapman, Undergraduate student, HU, Washington DC	Spring 2025
Sydney Stewart, Undergraduate student, HU, Washington DC	2025-Present
Adepoju Toluwanimi, Undergraduate student, HU, Washington DC	2024-Present
Brianna Harris, Undergraduate student, HU, Washington DC	2024-Present
Elizabeth Roberts, Undergraduate student, HU, Washington DC	2024-Present
Zackary Haseley-Ayende, Undergraduate student, HU, Washington DC	Spring 2025
Kaylyn Steward, Undergraduate student, HU, Washington DC	Spring 2025
Nnenna Nwankwo, Undergraduate student, HU, Washington DC	2024-2025
Ella West, Undergraduate student, HU, Washington DC	2024-2025
Branden Damus, Summer Undergraduate student, University of Miami, FL	Summer 2024
Julia Sutton, Undergraduate student, HU, Washington DC	2024-2025
Nzube Amaeze, Graduate student, HU, Washington DC	2024-Present
Krushu Suresh, Undergraduate student, HU, Washington DC	2022-2024
Kaya Moody, Undergraduate student, HU, Washington DC	2022-2024
Christobell Wilson, Graduate student, HU, Washington DC	2022-2023
Jasmine Warren, Undergraduate student, HU, Washington DC	2022-2023
Hanna Wosen, Undergraduate student, HU, Washington DC	2022-2023
Sabrina Aviles, Undergraduate student, HU, Washington DC	2022-2023
Yodit Goshu, Undergraduate student, HU, Washington DC	2022-2023

Lectures/Labs:

- Teaching General and Organic Chemistry at Howard University:

- CHEM 003: General Chemistry I 2022-Present
 - CHEM 145: Organic Chemistry Lab 2022-Present
 - CHEM 141: Organic Chemistry I 2024-Present
 - CHEM 485: Research in Organic Chemistry 2022-Present
 - CHEM 248: Polymer Synthesis 2025-Present
- Assisted pharmacy courses at Texas A&M University, College Station:
 - PHAR 778: Drug Literature Evaluation and Patient drug education 2018-2019
 - PHAR 627: Biochemistry 2018-2019

EDITORIAL ACTIVITY

- ❖ Guest Editor, ACS Biomaterials Science & Engineering
- ❖ Early Career Member, ACS Biomaterials Science & Engineering
(https://pubs.acs.org/doi/10.1021/abv008i001_1544114)
- ❖ Review Editor, Energy Materials, Frontiers in Material

REVIEWER ACTIVITY

Full list: [Web of Science](#)

Some examples:

- ❖ ACS Biomaterials Science & Engineering
- ❖ ACS Applied Bio Materials
- ❖ ACS Omega
- ❖ Chemical Communications
- ❖ New Journal of Chemistry
- ❖ Frontiers in Neurology
- ❖ Aging Cell

PROFESSIONAL MEMBERSHIPS

- ❖ Member, American Association of University Women 2026-Present
- ❖ Member, International Society for Extracellular Vesicles (ISEV) 2024-Present
- ❖ Member, Royal Chemical Society 2022-Present
- ❖ Member, American Chemical Society 2018-Present
- ❖ Member, Lindau Alumni Association (Invited) 2017-Present
- ❖ Member, European Peptide Society 2017-Present
- ❖ Member, American Peptide Society 2017-Present

PROFESSIONAL SERVICE/ LEADERSHIP/ OUTREACH

- ❖ Member, ACS-CSW Committee on Minority Affairs 2026
- ❖ 2026 WCC Merck travel award reviewer 2026
- ❖ National Science Foundation (NSF) grant reviewer and Panelist 2026
- ❖ American Association of University Women (AAUW) International Fellowship Panelist 2025
- ❖ Judge for the 2025 Annual Biomedical Research Conference for Minority students (ABRCMS), Texas (Nov 19-22) 2025
- ❖ ABRCMS 2025 Travel Award Reviewer 2025

❖ Co-Director, NHC-COAS Humanities/STEM Summer Institute	2025
❖ Member, HU COAS 2025 Strategic Planning Task Force Committee	2025
❖ Judge for <i>Howard Annual Research Symposium</i> , Howard University, Washington DC	2025
❖ National Science Foundation (NSF) grant reviewer and Panelist	2024
❖ Judge for the 2024 Annual Biomedical Research Conference for Minority students (ABRCMS), Pittsburgh (Nov 13-16)	2024
❖ ABRCMS 2024 Travel Award Reviewer	2024
❖ Guest Editor, ACS Biomaterials Science & Engineering	2024
❖ Successfully guest edited as special issue “Functional Polymer Applications in Biomedicine” for Polymers journal, MDPI publisher	2024
❖ Attended NSF’s <i>Broadening Participation: 2024 MPS Workshop for New Investigators</i> (July 7-9, 2024, in Alexandria, VA)	2024
❖ Judge for <i>Howard Annual Research Symposium</i> , Howard University, Washington DC	2024
❖ Judge for the 2024 Annual Biomedical Research Conference for Minority students (ABRCMS) ePoster Spring Symposium	2024
❖ National Science Foundation (NSF) grant reviewer and Panelist	2024
❖ Review Editor, Energy Materials, Frontiers in Material	2024
❖ Program committee member and volunteer to organize a session at the 39 th Southern Biomedical Engineering Conference (SBEC) 2023	2023
❖ Judge for <i>Howard Annual Research Symposium</i> , Howard University, Washington DC	2023
❖ Judge for the 2023 Annual Biomedical Research Conference for Minority students (ABRCMS) ePoster Spring Symposium	2023
❖ Panelist and presenter for 4th Annual Expanding Your Horizons STEM Outreach organized by ACS Chemical Society of Washington	2023
❖ Volunteer for Freshman Seminar Mixer Event, Howard University	
❖ Early career editorial board member, ACS Biomaterials Science & Engineering	2022
❖ 2022 BMES (Biomedical engineering society) Annual meeting abstract reviewer	2022
❖ Judge for the 2022 Annual Biomedical Research Conference for Minority students, ABRCMS ePoster Spring Symposium (April 9-12, 2022)	2022
❖ Annual Biomedical Research Conference for Minority students (ABRCMS) ePoster Spring Symposium abstract reviewer (Mar 16-20, 2022)	2022
❖ Judge for the 2022 Student Research Week (SRW), Texas A&M university (Mar 21-24, 2022)	2022
❖ Judge for the Texas Science & Engineering Fair (TXSEF) (Mar 4-9, 2022)	
❖ Judge for the 17 th Texas A&M University System Pathways Student Research Symposium (Mar 3-4, 2022)	2022
❖ Co-president, Postdoctoral Association, Texas A&M University, College Station	
❖ Judge for the 2021 Texas A&M University postdoctoral research symposium	2021
❖ Judge for the 2021 Student Research Week (SRW), Texas A&M University, College Station, TX	2021
❖ Judge for the 2020 Texas A&M University postdoctoral research symposium	
❖ Public relation committee member, Women in Science and Engineering (WiSE), Texas A&M University, College Station	2020 2020-2022

- ❖ Facilitator, Aggie Ally (LGBTQ supporter group), Texas A&M University, College Station 2020-2022
- ❖ Member, Chemistry Women Mentorship Network (ChemWMN) 2019-present
- ❖ Departmental postgraduate committee (DPGC) student representative at Department of Chemistry, Indian Institute of Technology, Kanpur 2014-2015

MEDIA COVERAGE

- ❖ Invited for an article by Hello Bio on '[Overcoming Challenges as a Woman in STEM](#)'
- ❖ Hamilton pipette grant ([link](#))
- ❖ Invited for dialogue by '[Hello Bio blog 'Interviews with Scientists'](#)'
- ❖ Invited for an article by Hello Bio on '[The Life Scientists' Guide to Applying for Postdocs](#)'