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CURRENT POSITION:

2026 – Present Assistant Professor, School of Health Sciences, Purdue University

EDUCATION:

2021 Ph.D. in Bioengineering, University of Pennsylvania

2013 B.S. in Nuclear Engineering, University of Illinois at Urbana-Champaign, *Highest Honors at Graduation*

PROFESSIONAL EXPERIENCES:

2022 – 2025 Postdoctoral Fellow, Departments of Radiology and Medical Physics, University of Wisconsin-Madison

2021 – 2022 Postdoctoral Fellow, Department of Radiology, University of Pennsylvania

2015 – 2021 Graduate Researcher, Department of Bioengineering, University of Pennsylvania

2013 – 2015 Associate Design Engineer, Nuclear Fuels Department, Exelon Generation, Warrenville, IL

2011 – 2013 Undergraduate Researcher, College of Engineering, University of Illinois at Urbana-Champaign

GRANT FUNDING:

2022 – 2024 UW-Madison Radiological Sciences Training Program (Grant No. NCI-T32CA009206)
Role: Postdoctoral Researcher (\$60,000 per year)

2021 – 2022 Brody Family Medical Trust Fund Postdoctoral Fellowship (Grant No. 20211722)
Role: Principal Investigator (\$82,000 per year)

2017 – 2020 National Science Foundation Graduate Research Fellowship (Grant No. DGE-1321851)
Role: Principal Investigator (\$46,000 per year)

2015 – 2017 National Science Foundation IGERT in Complex Scene Perception (Grant No. DGE-0966142)
Role: Graduate Researcher (\$30,000 per year)

TEACHING EXPERIENCES:

2017 – 2020 Graduate Teaching Assistant, BE 583: Molecular Imaging,
Department of Bioengineering, University of Pennsylvania

2010 – 2013 Undergraduate Teaching Assistant, CS 101: Intro to Computing
Department of Computer Science, University of Illinois at Urbana-Champaign

PUBLICATIONS:

Original research articles (*denotes co-first authors)

1. Li X, Zhao Y, **Hsu JC**, Sarduy EA, Barnhart TE, Engle JW, Wei W, Hu S, Cai W. [⁴⁴Sc]Sc-CHX-A"-DTPA-RCCB6: a PET tracer for imaging CD70 expression across latency types of Burkitt lymphoma. *J Nucl Med*. 2025. doi: 10.2967/jnumed.125.269991.
2. Huang W*, Chao F*, **Hsu JC***, Sun X, Barnhart TE, Engle JW, Han X, Kang L, Cai W. Noninvasive immunoPET imaging of PD-L1 expression in non-small cell lung cancer and bladder cancer using [⁸⁹Zr]Zr-DFO-Durvalumab. *Colloids Surf A: Physicochem Eng Asp*. 2025, 723:137332. doi: 10.1016/j.colsurfa.2025.137332.
3. Liu P, Zhou M, Luo Z, Hao L, **Hsu JC**, Cai W, Zhou W, Hu S. A ¹⁷⁷Lu-nucleotide coordination polymer-incorporated thermosensitive hydrogel with anti-inflammatory and chondroprotective capabilities for osteoarthritis treatment. *Biomaterials*. 2025, 317:123098. doi: 10.1016/j.biomaterials.2025.123098.

4. Huang W, Liu Y, Li R, Yang Y, **Hsu JC**, DeLuca MC, Engle JW, Wei Y, Kang L, Li L, Cai W. [⁶⁴Cu]Cu-NOTA-Ivonescimab: a novel PET tracer for imaging VEGF expression in colorectal carcinoma. *Biophys Rep*. 2025. doi: 10.52601/bpr.2025.250031.
5. Liu P, Hao L, **Hsu JC**, Zhou M, Luo Z, Peng Y, Cai W, Hu S. Biomineralized nanocomposite-integrated microneedle patch for combined brachytherapy and photothermal therapy in postoperative melanoma recurrence and infectious wound healing. *Adv Sci*. 2025, e2414468. doi: 10.1002/advs.202414468.
6. Huang W, Li L, Chao F, Yang Q, Mixdorf JC, Engle JW, **Hsu JC**, Kang L, Cai W. [⁶⁴Cu]Cu-NOTA-EV-F(ab')₂ enables same-day immuno-pet imaging of Nectin-4 in triple-negative breast and urothelial bladder cancers. *J Nucl Med*. 2025. doi: 10.2967/jnumed.125.270132.
7. Mossburg KJ, Shepherd SJ, Barragan D, O NH, Berkow EK, Maidment PSN, Rosario Berrios DN, **Hsu JC**, Siedlik MJ, Yadavali S, Mitchell MJ, Issadore D, Cormode DP. Towards the clinical translation of a silver sulfide nanoparticle contrast agent: large scale production with a highly parallelized microfluidic chip. *Eur J Nucl Med Mol Imaging*. 2025, 52(3):1177-1188. doi: 10.1007/s00259-024-06967-5.
8. Huang W, Li L, Zhou Y, Yang Q, Mixdorf JC, Barnhart TE, **Hsu JC**, Saladin RJ, Liu C, Rosenkrans ZT, Engle JW, Gao J, Kang L, Cai W. Preclinical evaluation of zirconium-89 labeled anti-Trop2 antibody-drug conjugate (Trodelvy) for imaging in gastric cancer and triple-negative breast cancer. *Eur J Nucl Med Mol Imaging*. 2025. doi: 10.1007/s00259-025-07106-4.
9. Huang W, Sun X, Li X, **Hsu JC**, Qiu Y, DeLuca MC, Engle JW, Li L, Lu J, Wang T, Kang L, Cai W. Rapid and specific immunoPET imaging of Nectin-4 in gastric cancer and non-small cell lung cancer using [⁶⁴Cu]Cu-NOTA-EV-F(ab')₂. *Eur J Nucl Med Mol Imaging*. 2025. doi: 10.1007/s00259-025-07402-z.
10. Zhou J, Ji X, Wang H, **Hsu JC**, Hua C, Yang X, Liu Z, Guo H, Huang Y, Li Y, Cai W, Lin X, Ni D. Design of ultrasound-driven charge interference therapy for wound infection. *Nano Lett*. 2024, 24(26):7868-7878. doi: 10.1021/acs.nanolett.4c00930.
11. **Hsu JC***, Lau KC*, Barragan D, Mossburg KJ, Cormode DP, Maidment ADA. Influence of acquisition parameters on silver sulfide nanoparticle contrast in photon-counting digital mammography: a phantom study. *ACS Appl Nano Mater*. 2024, 7(5): 4805-4813. doi: 10.1021/acsanm.3c05431.
12. Tang Z, Yu F, **Hsu JC**, Shi J, Cai W. Soybean oil-derived lipids for efficient mRNA delivery. *Adv Mater*. 2024, 36(13):e2302901. doi: 10.1002/adma.202302901.
13. **Hsu JC**, Barragan D, Tward AE, Hajfathalian M, Amirshaghghi A, Mossburg KJ, Rosario-Berrios DN, Bouché M, Andrianov AK, Delikatny EJ, Cormode DP. A biodegradable "one-for-all" nanoparticle for multimodality imaging and enhanced photothermal treatment of breast cancer. *Adv Healthc Mater*. 2024, 13(8):e2303018. doi: 10.1002/adhm.202303018.
14. Yan J, Tang Z, Li Y, Wang H, **Hsu JC**, Shi M, Fu Z, Ji X, Cai W, Ni D, Qu J. Molybdenum nanodots for acute lung injury therapy. *ACS Nano*. 2023, 17(23):23872-23888. doi: 10.1021/acsnano.3c08147.
15. Dong YC, Nieves LM, **Hsu JC**, Kumar A, Bouché M, Krishnan U, Mossburg KJ, Saxena D, Uman S, Kambayashi T, Burdick JA, Kim MM, Dorsey JF, Cormode DP. Novel combination treatment for melanoma: FLASH radiotherapy and immunotherapy delivered by a radiopaque and radiation responsive hydrogel. *Chem Mater*. 2023, 35(22):9542-9551. doi: 10.1021/acs.chemmater.3c01390.
16. Hajfathalian M, de Vries CR, **Hsu JC**, Amirshaghghi A, Dong YC, Ren Z, Liu Y, Huang Y, Li Y, Knight SA, Jonnalagadda P, Zlitni A, Grice EA, Bollyky PL, Koo H, Cormode DP. Theranostic gold-in-gold cage nanoparticles enable photothermal ablation and photoacoustic imaging in biofilm-associated infection models. *J Clin Invest*. 2023, 133(21):e168485. doi: 10.1172/JCI168485.
17. Ji X, Zhu L, **Hsu JC**, Wang H, Zhou J, Wang Q, Li Y, Cai W, Ni D, Wu Z. Tungsten-based nanoparticles as contrast agents for liver tumor detection using dual-energy computed tomography. *Biomater Sci*. 2023, 11(24):7817-7825. doi: 10.1039/d3bm01068f.
18. Huang Y, Liu Y, Pandey NK, Shah S, Simon-Soro A, **Hsu JC**, Ren Z, Xiang Z, Kim D, Ito T, Oh MJ, Buckley C, Alawi F, Li Y, Smeets PJM, Boyer S, Zhao X, Joester D, Zero DT, Cormode DP, Koo H. Iron oxide nanozymes stabilize stannous fluoride for targeted biofilm killing and synergistic oral disease prevention. *Nat Commun*. 2023, 14(1):6087. doi: 10.1038/s41467-023-41687-8.
19. Rosenkrans ZT*, **Hsu JC***, Aluicio-Sarduy E, Barnhart TE, Engle JW, Cai W. Amplification of Cerenkov luminescence using semiconducting polymers for cancer theranostics. *Adv Funct Mater*. 2023, 33(33):2302777. doi: 10.1002/adfm.202302777.
20. Dong YC, Kumar A, Rosario-Berrios DN, Si-Mohamed S, **Hsu JC**, Nieves LM, Douek P, Noël PB, Cormode DP. Ytterbium nanoparticle contrast agents for conventional and spectral photon-counting CT and their applications for hydrogel imaging. *ACS Appl Mater Interfaces*. 2022, 14(34):39274-39284. doi: 10.1021/acsami.2c12354.
21. Nieves LM, Dong YC, Rosario-Berrios DN, Mossburg K, **Hsu JC**, Cramer GM, Busch TM, Maidment ADA, Cormode DP. Renally excretable silver telluride nanoparticles as contrast agents for X-ray imaging. *ACS Appl Mater Interfaces*. 2022, 14(30):34354-34364. doi: 10.1021/acsami.2c06190.

22. Kim J, Hong G, Mazaleuskaya L, **Hsu JC**, Rosario-Berrios DN, Grosser T, Cho-Park PF, Cormode DP. Ultrasmall antioxidant cerium oxide nanoparticles for regulation of acute inflammation. *ACS Appl Mater Interfaces*. 2021, 13(51):60852-60864. doi: 10.1021/acsami.1c16126.
23. **Hsu JC**, Du Y, Sengupta A, Dong YC, Mossburg KJ, Bouché M, Maidment ADA, Weljie AM, Cormode DP. Effect of nanoparticle synthetic conditions on ligand coating integrity and subsequent nano-biointeractions. *ACS Appl Mater Interfaces*. 2021, 13(49):58401-58410. doi: 10.1021/acsami.1c18941.
24. Bouché M, Dong YC, Sheikh S, Taing K, Saxena D, **Hsu JC**, Chen MH, Salinas RD, Song H, Burdick JA, Dorsey J, Cormode DP. Novel treatment for glioblastoma delivered by a radiation responsive and radiopaque hydrogel. *ACS Biomater Sci Eng*. 2021, 7(7):3209-3220. doi: 10.1021/acsbiomaterials.1c00385.
25. Si-Mohamed SA, Sigovan M, **Hsu JC**, Tatard-Leitman V, Chalabreysse L, Naha PC, Garrivier T, Dessouky R, Carnaru M, Boussel L, Cormode DP, Douek PC. In vivo molecular K-edge imaging of atherosclerotic plaque using photon-counting CT. *Radiology*. 2021, 300(1):98-107. doi: 10.1148/radiol.2021203968.
26. Nieves LM, **Hsu JC**, Lau KC, Maidment ADA, Cormode DP. Silver telluride nanoparticles as biocompatible and enhanced contrast agents for X-ray imaging: an in vivo breast cancer screening study. *Nanoscale*. 2021, 13(1):163-174. doi: 10.1039/d0nr05489e.
27. Huang Y, Liu Y, Shah S, Kim D, Simon-Soro A, Ito T, Hajfathalian M, Li Y, **Hsu JC**, Nieves LM, Alawi F, Naha PC, Cormode DP, Koo H. Precision targeting of bacterial pathogen via bi-functional nanozyme activated by biofilm microenvironment. *Biomaterials*. 2021, 268:120581. doi: 10.1016/j.biomaterials.2020.120581.
28. Naha PC, **Hsu JC**, Kim J, Shah S, Bouché M, Si-Mohamed S, Rosario-Berrios DN, Douek P, Hajfathalian M, Yasini P, Singh S, Rosen MA, Morgan MA, Cormode DP. Dextran-coated cerium oxide nanoparticles: a computed tomography contrast agent for imaging the gastrointestinal tract and inflammatory bowel disease. *ACS Nano*. 2020, 14(8):10187-10197. doi: 10.1021/acsnano.0c03457.
29. Kim J, Silva AB, **Hsu JC**, Maidment PSN, Shapira N, Noël PB, Cormode DP. Radioprotective garment-inspired biodegradable polymetal nanoparticles for enhanced CT contrast production. *Chem Mater*. 2020, 32(1):381-391. doi: 10.1021/acs.chemmater.9b03931.
30. Dong YC, Hajfathalian M, Maidment PSN, **Hsu JC**, Naha PC, Si-Mohamed S, Breuilly M, Kim J, Chhour P, Douek P, Litt HI, Cormode DP. Effect of gold nanoparticle size on their properties as contrast agents for computed tomography. *Sci Rep*. 2019, 9(1):14912. doi: 10.1038/s41598-019-50332-8.
31. **Hsu JC**, Cruz ED, Lau KC, Bouché M, Kim J, Maidment ADA, Cormode DP. Renally excretable and size-tunable silver sulfide nanoparticles for dual-energy mammography or computed tomography. *Chem Mater*. 2019, 31(19):7845-7854. doi: 10.1021/acs.chemmater.9b01750.
32. Hajfathalian M, Amirshaghghi A, Naha PC, Chhour P, **Hsu JC**, Douglas K, Dong Y, Sehgal CM, Tsourkas A, Neretina S, Cormode DP. Wulff in a cage gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging. *Nanoscale*. 2018, 10(39):18749-18757. doi: 10.1039/c8nr05203d.
33. **Hsu JC**, Naha PC, Lau KC, Chhour P, Hastings R, Moon BF, Stein JM, Witschey WRT, McDonald ES, Maidment ADA, Cormode DP. An all-in-one nanoparticle (AION) contrast agent for breast cancer screening with DEM-CT-MRI-NIRF imaging. *Nanoscale*. 2018, 10(36):17236-17248. doi: 10.1039/c8nr03741h.
34. Morgan JIW, Vergilio GK, **Hsu JC**, Dubra A, Cooper RF. The reliability of cone density measurements in the presence of rods. *Transl Vis Sci Technol*. 2018, 7(3):21. doi: 10.1167/tvst.7.3.21.
35. Naha PC, Lau KC, **Hsu JC**, Hajfathalian M, Mian S, Chhour P, Uppuluri L, McDonald ES, Maidment AD, Cormode DP. Gold silver alloy nanoparticles (GSAN): an imaging probe for breast cancer screening with dual-energy mammography or computed tomography. *Nanoscale*. 2016, 8(28):13740-54. doi: 10.1039/c6nr02618d.
36. Cheheltani R, Ezzibdeh RM, Chhour P, Pulaparthy K, Kim J, Jurcova M, **Hsu JC**, Blundell C, Litt HI, Ferrari VA, Allcock HR, Sehgal CM, Cormode DP. Tunable, biodegradable gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging. *Biomaterials*. 2016, 102:87-97. doi: 10.1016/j.biomaterials.2016.06.015.

Reviews (*denotes co-first authors)

1. Huang W, Zhou J, Liu Y, Yang Y, Saladin RJ, **Hsu JC**, Cai W, Kang L. Advances in immunoPET/SPECT imaging: the role of Fab and F(ab')₂ fragments in theranostics. *Acta Pharm Sin B*. 2025, 15(8):3888-3924. doi: 10.1016/j.apsb.2025.05.030.
2. Liu P, Zhao Y, Peng Y, **Hsu JC**, Zhou M, Zhou W, Hu S, Cai W. Harnessing the power of nanoagents in acute kidney injury: a versatile platform for imaging and treatment. *Coord Chem Rev*. 2025, 533:216570. doi: 10.1016/j.ccr.2025.216570.
3. Liu Y, Huang W, Saladin RJ, **Hsu JC**, Cai W, Kang L. Trop2-targeted molecular imaging in solid tumors: current advances and future outlook. *Mol Pharm*. 2024, 21(12):5909-5928. doi: 10.1021/acs.molpharmaceut.4c00848.

4. Wang H*, **Hsu JC***, Song W*, Lan X, Cai W, Ni D. Nanorepair medicine for treatment of organ injury. *Natl Sci Rev.* 2024, 11(9):nwae280. doi: 10.1093/nsr/nwae280.
5. **Hsu JC***, Liu P*, Song Y*, Song W, Saladin RJ, Peng Y, Hu S, Lan X, Cai W. Lymphoid organ-targeted nanomaterials for immunomodulation of cancer, inflammation, and beyond. *Chem Soc Rev.* 2024, 53(15):7657-7680. doi: 10.1039/d4cs00421c.
6. Hu Q*, Zuo H*, **Hsu JC***, Zeng C, Tian Z, Sun Z, Cai W, Tang Z, Chen W. The emerging landscape for combating resistance associated with energy-based therapies via nanomedicine. *Adv Mater.* 2024, 36(5):e2308286. doi: 10.1002/adma.202308286.
7. Ghosh S, Lee SJ, **Hsu JC**, Chakraborty S, Chakravarty R, Cai W. Cancer brachytherapy at the nanoscale: an emerging paradigm. *Chem Biomed Imaging.* 2023, 2(1):4-26. doi: 10.1021/cbmi.3c00092.
8. Xu Y*, **Hsu JC***, Xu L, Chen W, Cai W, Wang K. Nanomedicine-based adjuvant therapy: a promising solution for lung cancer. *J Nanobiotechnology.* 2023, 21(1):211. doi: 10.1186/s12951-023-01958-4.
9. Yang Q, Huang W, **Hsu JC**, Song L, Sun X, Li C, Cai W, Kang L. CD146-targeted nuclear medicine imaging in cancer: state of the art. *View.* 2023, 4(5):20220085. doi: 10.1002/VIW.20220085.
10. Zhu T*, **Hsu JC***, Guo J, Chen W, Cai W, Wang K. Radionuclide-based theranostics – a promising strategy for lung cancer. *Eur J Nucl Med Mol Imaging.* 2023, 50(8):2353-2374. doi: 10.1007/s00259-023-06174-8.
11. **Hsu JC**, Tang Z, Eremina OE, Sofias AM, Lammers T, Lovell JF, Zavaleta C, Cai W, Cormode DP. Nanomaterial-based contrast agents. *Nat Rev Methods Primers.* 2023, 3:30. doi: 10.1038/s43586-023-00211-4.
12. Huang Y, **Hsu JC**, Koo H, Cormode DP. Repurposing ferumoxytol: Diagnostic and therapeutic applications of an FDA-approved nanoparticle. *Theranostics.* 2022, 12(2):796-816. doi: 10.7150/thno.67375.
13. Nieves LM, Mossburg K, **Hsu JC**, Maidment ADA, Cormode DP. Silver chalcogenide nanoparticles: a review of their biomedical applications. *Nanoscale.* 2021, 13(46):19306-19323. doi: 10.1039/d0nr03872e.
14. **Hsu JC**, Nieves LM, Betzer O, Sadan T, Noël PB, Popovtzer R, Cormode DP. Nanoparticle contrast agents for X-ray imaging applications. *Wiley Interdiscip Rev Nanomed Nanobiotechnol.* 2020, 12(6):e1642. doi: 10.1002/wnan.1642. (Featured on Advanced Science News)
15. Bouché M, **Hsu JC**, Dong YC, Kim J, Taing K, Cormode DP. Recent advances in molecular imaging with gold nanoparticles. *Bioconjug Chem.* 2020, 31(2):303-314. doi: 10.1021/acs.bioconjchem.9b00669.
16. Kim J, Chhour P, **Hsu JC**, Litt HI, Ferrari VA, Popovtzer R, Cormode DP. Use of nanoparticle contrast agents for cell tracking with computed tomography. *Bioconjug Chem.* 2017, 28(6):1581-1597. doi: 10.1021/acs.bioconjchem.7b00194.

Editorials

1. **Hsu JC**, Zhou J, Cai W. Metabolic reprogramming with ultrasound-responsive nanovesicles. *Nat Biomed Eng.* 2025, 1-3.
2. Zhao Y, **Hsu JC**, Hu S, Cai W. PET imaging of PD-L1 with a small molecule radiotracer. *Eur J Nucl Med Mol Imaging.* 2024, 51(6):1578-1581. doi: 10.1007/s00259-024-06663-4.
3. Song W, **Hsu JC**, Lan X, Cai W. Optical image-guided therapy of pancreatic cancer with an ultra-small bispecific protein. *Eur J Nucl Med Mol Imaging.* 2023, 50(6):1560-1563. doi: 10.1007/s00259-023-06186-4.
4. Li X, **Hsu JC**, Son MH, Ha LN, Cai W. Cancer photodynamic therapy with chlorin e6-loaded, goat milk-derived extracellular vesicles: [¹⁸F]FDG lights up the way. *Eur J Nucl Med Mol Imaging.* 2023, 50(2):247-250. doi: 10.1007/s00259-022-06031-0.

CONFERENCE ORAL PRESENTATIONS (SELECTED):

1. **Hsu JC**, Huang W, Engle JW, Kang L, Cai W. Evaluation of Trop2 expression using radiolabeled ACD fragment in gastric cancer. *World Molecular Imaging Congress*, 2025, Anchorage, AK.
2. **Hsu JC**, Song W, Zhang X, Lan X, Cai W. Enhanced tumor imaging and therapeutic potency using in situ site-specific self-assembly of modified probes. *Society of Nuclear Medicine and Molecular Imaging*, 2024, Toronto, Canada.
3. **Hsu JC**, Tang Z, Cai W. Soybean oil-derived lipids for efficient mRNA delivery. *Materials Research Society*, 2024, Seattle, WA.
4. **Hsu JC**. CT contrast agents: a focus on their physiochemical and biological properties. *American Association of Physicists in Medicine*, 2023, Houston, TX. **(Invited Lecture)**
5. **Hsu JC**. CT contrast agents: past, present and future. *World Molecular Imaging Congress*, 2023, Prague, Czech Republic. **(Invited Lecture)**
6. **Hsu JC**, Rosenkrans Z, Aluicio-Sarduy E, Barnhart TE, Engle JW, Cai W. Semiconducting polymer nanoparticles amplify

Cerenkov luminescence for multimodal cancer theranostics. *World Molecular Imaging Congress*, 2023, Prague, Czech Republic.

7. **Hsu JC**, Barragan D, Tward A, Mossburg KJ, Hajfathalian M, Dong YC, Cruz ED, Andrianov A, Cormode DP. Multimodality detection and treatment for breast cancer with a biodegradable “one-for-all” nanoparticle contrast agent. *World Molecular Imaging Congress*, 2022, Miami, FL.
8. **Hsu JC**, Cruz ED, Lau KC, Bouché M, Maidment ADA, Cormode DP. Renally-clearable and size-tunable silver sulfide nanoparticles for dual energy mammography or computed tomography. *45th Annual Pendergrass Research Symposium*, 2019, Department of Radiology, University of Pennsylvania, Philadelphia, PA.
9. **Hsu JC**, Naha PC, Lau KC, Chhour P, Hastings R, Stein JM, Witschey W, McDonald ES, Maidment ADA, Cormode DP. An all-in-one nanoparticle (AION) contrast agent for breast cancer screening with DEM-CT-MRI-NIRF imaging. *Society For Biomaterials*, 2018, Atlanta, GA.

HONORS AND AWARDS:

2025	Student Travel Award, World Molecular Imaging Congress
2024	WIMIN Scholar Award, World Molecular Imaging Congress
2024	Student Travel Award, World Molecular Imaging Congress
2024	Best Oral Presentation Award, Materials Research Society
2023	Student Travel Award, World Molecular Imaging Congress
2023	First Place Poster Prize, Society of Nuclear Medicine and Molecular Imaging
2022	Introduction to Academic Radiology for Scientist Program, Radiological Society of North America
2022	WIMIN Scholar Award, World Molecular Imaging Congress
2022	Student Travel Award, World Molecular Imaging Congress
2022	Biomedical Postdoctoral Council Travel Award, University of Pennsylvania
2018	Best in Engineering Award, Women in Chemistry Pop Talks, University of Pennsylvania
2018	Best Poster Award, World Molecular Imaging Congress
2018	ACS Bioconjugate Chemistry Award, World Molecular Imaging Congress
2018	Student Travel Award, World Molecular Imaging Congress
2018	Student Travel Award Recognition, Society For Biomaterials
2018	Honorable Mention for Outstanding Abstract, Society For Biomaterials
2017 – 2019	GAPSA Research Travel Grant Award, University of Pennsylvania
2016	NSF Graduate Research Fellowship Program Honorable Mention
2012	National Academy for Nuclear Training Scholarship
2012	Roy A. Axford Undergraduate Scholarship, University of Illinois at Urbana-Champaign
2012	Alpha Nu Sigma National Honor Society of American Nuclear Society
2011 – 2013	Edmund J. James Scholar, University of Illinois at Urbana-Champaign
2010	Phi Tau Phi Scholastic Honor Society Scholarship
2010	Tau Beta Pi Engineering Honor Society
2009 – 2013	Dean’s List, College of Engineering, University of Illinois at Urbana-Champaign

PROFESSIONAL SERVICES:

Manuscript Reviewer: Acta Biomaterialia, Carbohydrate Polymer, Chemical Society Reviews, Nature Nanotechnology, Nature Biomedical Engineering, European Journal of Nuclear Medicine and Molecular Imaging, Nano-Micro Letters, Nano Today, Bioactive Materials, RSC Advances, Chemical Engineering Journal, Journal of Colloid and Interface Science, Scientific Reports

Guest Editor: Special collection (Translational research with nanomaterials, nanobodies, and protein scaffolds) of the European Journal of Nuclear Medicine and Molecular Imaging, Special issue (Advancements in bioactive nanomaterials for disease management) of Frontiers in Pharmacology

Session Moderator: Theranostic Applications in Oncology (World Molecular Imaging Congress, 2025), Bioresponsive Nanotheranostics (Materials Research Society, 2024), Radiological Sciences Training Program Symposium (UW-Madison, 2024)

Abstract Reviewer: Society of Nuclear Medicine and Molecular Imaging (2022-present), European Molecular Imaging Meeting (2022-present), World Molecular Imaging Congress (2022-present)

PROFESSIONAL MEMBERSHIPS:

2022 – Present	Society of Nuclear Medicine and Molecular Imaging (SNMMI)
2019 – Present	Biomedical Engineering Society (BMES)
2018 – Present	Society for Biomaterials (SFB)

2016 – Present World Molecular Imaging Society (WMIS)