

Alexander Dean Sherry, BS

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alexander.d.sherry@vanderbilt.edu

EDUCATION / TRAINING:

2016 - present	Vanderbilt University School of Medicine (VUSM) Doctor of Medicine (expected 2020)	Nashville, TN
2012 - 2016	University of North Carolina at Chapel Hill (UNC-CH) Bachelor of Science, Chemistry, highest distinction Second major in Biology Minor in Philosophy, Politics, and Economics	Chapel Hill, NC

HONORS / AWARDS / GRANTS:

2019	Alpha Omega Alpha Honor Society, Vanderbilt Chapter	
2018 - present	Concurrent Capecitabine and Radiotherapy in the Adjuvant Treatment of Resistant Breast Cancer: A Prospective Feasibility Trial <ul style="list-style-type: none">Awarded by Vanderbilt-Ingram Cancer Center\$55,000Role: Sub-InvestigatorMentor: Bapsi Chakravarthy, MD	
2018 - present	Capsulotomy by Linear Accelerator-Based Stereotactic Radiosurgery for Intractable Obsessive-Compulsive Disorder: Pilot Study <ul style="list-style-type: none">Awarded by Varian Medical Systems\$380,684Role: Sub-InvestigatorPrincipal Investigator: Mohamed Khattab, MD	
2018 - 2019	The Safety and Feasibility of Concurrent Capecitabine and Radiotherapy in the Adjuvant Treatment of Resistant Breast Cancer <ul style="list-style-type: none">Awarded by Vanderbilt Institute for Clinical and Translational Research (funded by NIH #UL1 TR000445)\$2,000, \$500Role: Principal InvestigatorMentor: Bapsi Chakravarthy, MD	
2018 - present	Concurrent Capecitabine and Radiotherapy in the Adjuvant Treatment of Resistant Breast Cancer: A Prospective Feasibility Trial <ul style="list-style-type: none">Awarded by Meharry-Vanderbilt-Tennessee State Cancer Partnership (funded by NIH #5U54CA163072-09)\$4,000Role: Sub-InvestigatorMentor: Bapsi Chakravarthy, MD	
2018, 2019	Conference Travel Award (\$500, \$500, \$850), VUSM	
2017	Preclinical Volunteer Award, Shade Tree Clinic, VUSM	
2016 - 2020	Cornelius Vanderbilt Scholarship, VUSM <ul style="list-style-type: none">4-year, 75% tuition, merit-based scholarship	
2014	Phi Beta Kappa, Alpha Chapter of North Carolina, UNC-CH	
2012 - 2016	Buckley Public Service Scholar, UNC-CH	
2012 - 2016	Dean's list, UNC-CH	
2012 - 2016	National Merit Scholarship, UNC-CH	

LEADERSHIP / SERVICE:

2018 - 2019	Admissions, VUSM	Nashville, TN
	<ul style="list-style-type: none"> Executive Admissions Committee Appointed by faculty chair as student representative to review and score final decisions on applicants Admissions Student Ambassador Led tours, hosted applicants the night before interviews, coordinated interview social events 	
2018 - 2020	Radiation Oncology Medical Student Interest Group Leader	Nashville, TN
2018 - present	Rayos Contra Cancer: Global Radiotherapy NGO	
	<ul style="list-style-type: none"> Secretary, Board of Directors Co-Founder Medical Student Affiliate Group (2018) 	
2016 - 2020	Shade Tree Clinic, Vanderbilt University Medical Center	Nashville, TN
	<ul style="list-style-type: none"> Student-run free clinic with >350 patients, >150k annual funding Volunteer, Peer Educator <ul style="list-style-type: none"> Taught junior medical students history & physical exam 	
2016 - 2020	Society of Saints Cosmas & Damian, VUSM	Nashville, TN
	<ul style="list-style-type: none"> Co-President, 2018-present Member, 2016-present 	
2016 - 2020	Medical Ethics, Law, and Policy Group, VUSM	Nashville, TN
	<ul style="list-style-type: none"> Co-President, 2017-present First year representative, 2016-2017 	
2016 - 2020	Mentor for pre-medical and junior medical students, VUSM	Nashville, TN

PUBLICATIONS / PRESENTATIONS:

Peer-Reviewed Publications

1. Sherry AD, Mayer I, Ayala-Peacock D, Abramson V, Rexer B, Chakravarthy AB. Combining Adjuvant Radiotherapy with Capecitabine in Chemotherapy-Resistant Breast Cancer: Feasibility, Safety, and Toxicity. (revisions). *Clin Breast Cancer*.
2. Newman NB, Sherry AD, Anderson JL, Osmundson EO. Dosimetric Analysis of Lymphopenia During Chemoradiotherapy for Esophageal Cancer. (revisions). *J Thorac Dis*.
3. Sherry AD, Khattab MH, Xu MC, Kelly PD, Anderson JL, Luo G, Utz AL, Chambless LB, Cmelak AJ, Attia A. Long-Term Outcomes of Hypofractionated Stereotactic Radiotherapy for Refractory Functional Pituitary Adenoma. (revisions). *J Radiat Oncol*.
4. Anderson J, Newman N, Anderson C, Sherry AD, Yock A, Osmundson E. Mean cardiopulmonary dose and vertebral bone marrow dose differentially predict lineage-specific leukopenia kinetics during radiotherapy for esophageal cancer. (accepted). *Radiother Oncol*.
5. Khattab MH*, Sherry AD*, Manzoor N, Totten DJ, Luo G, Chambless LB, Rivas A, Haynes D, Cmelak AJ, Attia A. Progressive Vestibular Schwannoma Following Subtotal or Near-Total Resection: Dose-Escalated Versus Standard-Dose Salvage Stereotactic Radiosurgery. (revisions). *J Neurol Surg B Skull Base*. *These authors contributed equally
6. Khattab MH*, Sherry AD*, Xu MC, Kelly PD, Anderson JL, Luo G, Chambless LB, Cmelak AJ, Attia A. Stereotactic radiosurgery and hypofractionated stereotactic radiotherapy for nonfunctioning pituitary adenoma. (revisions). *J Neurol Surg B Skull Base*. *These authors contributed equally

7. Anderson JL, Khattab MH, Sherry AD, Luo G, Chitale RV, Froehler MT, Fusco MR, Cmelak AJ, Attia A. Improved cerebral arteriovenous malformation obliteration with 3D rotational digital subtraction angiography for radiosurgical planning. (revisions). *Neurosurgery*.
8. Totten DJ, Manzoor N, Sherry AD, Khattab MH, Link MJ, Cmelak AJ, Haynes DS, Rivas A, Carlson ML, Attia A. Radiotherapy and Radiosurgery for Treatment of Residual or Recurrent Endolymphatic Sac Tumor following Prior Microsurgical Resection. (accepted). *Otol Neurotol*.
9. Sherry AD, Bezzerides M, Khattab MH, Luo G, Ancell K, Kirschner AN. An autoimmune-based, paraneoplastic neurologic syndrome following checkpoint inhibition and concurrent radiotherapy for merkel cell carcinoma: case report. (in press). *Strahlenther Onkol*. 2020. PMID: 32006066.
10. Sherry AD, von Eyben R, Newman NB, Gutkin P, Mayer I, Horst K, Chakravarthy AB, Rafat M. Systemic Inflammation after Radiation Predicts Locoregional Recurrence, Progression, and Mortality in Stage II-III Triple-Negative Breast Cancer. (in press). *Int J Radiat Oncol Biol Phys*. PMID: 31809877.
11. Sherry AD, Bingham B, Kim E, Monsour M, Luo G, Attia A, Chambless L, Cmelak A. Secondary malignancy following stereotactic radiosurgery for benign neurologic disease: A cohort study and review of the literature. (accepted). *J Radiosurg SBRT*.
12. Sherry AD, Newman NB, Anderson JL, Osmundson EO. Systemic Inflammatory Dynamics during Chemoradiotherapy Predict Response, Recurrence, Progression, and Mortality in Esophageal Carcinoma. *J Surg Oncol*. 2020;121(2):303-312. PMID: 31799692.
13. Anderson JL, Khattab MH, Anderson C, Sherry AD, Luo G, Manzoor N, Attia A, Netterville J, Cmelak AJ. Long-Term Outcomes for the Treatment of Paragangliomas in the Upfront, Adjuvant, and Salvage Settings with Stereotactic Radiosurgery and Intensity-Modulated Radiotherapy. *Otol Neurotol*. 2020;41(1):133-140. PMID: 31789966.
14. Sherry AD, Stewart A, Luo G, Kirschner AN. Intensity-Modulated Radiotherapy is Superior to Three-Dimensional Conformal Radiotherapy in the Trimodality Management of Muscle-Invasive Bladder Cancer with Daily Cone Beam Computed Tomography Optimization. (in press). *J Radiat Oncol*.
15. Liu Y, Erath A, Salwi S, Sherry AD, Mitchell M. Alignment of Ethics Curricula in Medical Education: A Student Perspective. (in press). *Teach Learn Med*. PMID: 32000533.
16. Sherry AD, Khattab MH, Totten DJ, Wharton D, Luo G, Manzoor N, Rivas A, Chambless L, Davis LT, Attia A, Cmelak AJ. Current Volumetric Models Overestimate Vestibular Schwannoma Size Following Stereotactic Radiosurgery. *Otol Neurotol*. 2020;41(2):e262-e267. PMID: 31789797.
17. Sherry AD, Khattab MH, Xu MC, Kelly PD, Anderson JL, Luo G, Utz AL, Chambless LB, Cmelak AJ, Attia A. Outcomes of Stereotactic Radiosurgery and Hypofractionated Stereotactic Radiotherapy for Refractory Cushing's Disease. *Pituitary*. 2019;22(6):607-613. PMID: 31552580.
18. Khattab MH, Sherry AD, Cmelak AJ, Attia A. In Reply: A Retrospective Cohort Study of Longitudinal Audiologic Assessment in Single and Fractionated Stereotactic Radiosurgery for Vestibular Schwannoma. *Neurosurgery*. 2019;85(6):E1127-E1129. PMID: 31529045.
19. Khattab MH, Sherry AD, Kim E, Anderson JL, Luo G, Yu H, Englot DJ, Chambless LB, Cmelak AJ, Attia A. (accepted). Body Mass Index and Response to Stereotactic Radiosurgery in the Treatment of Refractory Trigeminal Neuralgia: A Retrospective Cohort Study. *J Radiosurg SBRT*. 2019.
20. Newman NB, Sherry AD, Byrne D, Osmundson EO. Stereotactic body radiotherapy versus conventional radiotherapy for early-stage small cell lung cancer. *J Radiat Oncol*. 2019;8(2):239-248. PMID: 31402969.

21. Sherry AD, Ding G, Kirschner AN. Diffuse Primary Cutaneous Anaplastic Large Cell Lymphoma Treated by Rotational Total Skin Electron Beam Radiotherapy with Custom Shielding: Case Report. *J Med Imaging Radiat Sci*. 2019;50(3):454-459. PMID: 31213358.
22. Scudder D, Sherry AD, Jarrett R, Fernando S, Kuhn A, Fleming A. Fundamental Curriculum Reform with 1-Year Pre-Clerkship Phase and Effect on Stress Associated with Residency Specialty Selection. *Med Sci Educ*. 2019;29(4):1033-1042.
23. Erath A, Mitchell M, Salwi S, Liu Y, Sherry AD. The Sooner the Better: High Value Care Education in Medical School. *Acad Med*. 2019;94(11):1643-1645. PMID: 31335820.
24. Khattab MH, Sherry AD, Whitaker R, Wharton D, Weaver K, Cmelak A, Chambless L, Attia A. A Retrospective Cohort Study of Longitudinal Audiologic Assessment in Single and Fractionated Stereotactic Radiosurgery for Vestibular Schwannoma. *Neurosurgery*. 2019;85(6):E1078-E1083. PMID: 31215628.
25. Khattab MH, Newman NB, Wharton D, Sherry AD, Luo G, Manzoor M, Rivas A, Davis T, Chambless L, Attia A, Cmelak A. (in press). Longitudinal Radiographic Outcomes of Vestibular Schwannoma in Single and Fractionated Stereotactic Radiosurgery: A Retrospective Cohort Study. *J Neurol Surg B Skull Base*. 2019.
26. Sherry AD, Sherry CL. Stethoscope: An Introspection. *Chest*. 2019;155(2):448. PMID: 30732693.
27. Khattab MH, Sherry AD, Ahlers C, Kirschner AN. Radiation-associated epithelial-myoepithelial carcinoma among five secondary malignancies: A case report and review of literature. *World J Clin Oncol*. 2018;9(8):200-207. PMID: 30622928.
28. Sherry AD, Barlow CL. Incorporating Formative Assessments into the Preclerkship Lecture. *Acad Med*. 2017;92(6):734-735. PMID: 28557927.

Submitted Publications for Peer Review

1. Sherry AD, Pasalic D, Gunn GB, Fuller CD, Phan J, Rosenthal DI, Morrison WH, Sturgis EM, Gross ND, Gillison ML, Ferrarotto R, El-Naggar AK, Garden AS, Frank SJ. Proton Radiotherapy for Head and Neck Carcinoma of Unknown Primary: A Prospective Study of Toxicity and Quality of Life. Unpublished manuscript, The University of Texas MD Anderson Cancer Center, Houston, TX.
2. Sherry AD, Bingham B, Kim E, Chukwuma V, Khattab MH, Luo G, Attia A, Vogel J, Cmelak AJ. Pediatric stereotactic radiosurgery for benign neurologic disease: A 25-year institutional experience. Unpublished manuscript, Vanderbilt University Medical Center, Nashville, TN.
3. Khattab MH, Sherry AD, Barker C. The Birth, Decline, and Reemergence of Endovascular Brachytherapy for the Treatment and Prevention of In-Stent Restenosis. Unpublished manuscript, Vanderbilt University Medical Center, Nashville, TN.
4. Khattab MH, Sherry AD, Freeman ML, Luo G, Osmundson EC, Attia A, Cmelak AJ. Recommendations for Radiosurgery and Stereotactic Ablative Radiotherapy Terminology to Guide Clinical and Research Practices for the Medical Oncologist, Radiation Oncologist and Surgeon. Unpublished manuscript, Vanderbilt University Medical Center, Nashville, TN.
5. Manzoor NF, Yancey KL, Aulino JM, Sherry AD, Khattab MH, Cmelak AJ, Morrel WG, Haynes DS, Bennett ML, O'Malley MR, Netterville J, Wanna G, Rivas A. Contemporary Management of Jugular Paragangliomas with Neural Preservation. Unpublished manuscript, Vanderbilt University Medical Center, Nashville, TN.

6. Khattab MH, Sherry AD, Cmelak AJ. A Unilateral Enhancing Thalamic Lesion. Unpublished manuscript, Vanderbilt University Medical Center, Nashville, TN.
7. Khattab MH, Sherry AD, Kirschner AN. Mycosis Fungoides: A Continued Clinicopathologic Challenge. Unpublished manuscript, Vanderbilt University Medical Center, Nashville, TN.

Podium Presentations & Peer-Reviewed Abstracts (*presenting author)

1. Totten DJ*, Manzoor NF, Sherry AD, Yawn RJ, Thompson RC, Haynes DS, Rivas A. Comparative analysis of autograft and xenograft based spinal fluid leak prevention after translabyrinthine resection of cerebellopontine angle tumors. North American Skull Base Society Annual Meeting. San Antonio, TX. February 2020.
2. Yancey KL*, Manzoor NF, Totten DJ, Sherry AD, Yawn RJ, Thompson RC, Haynes DS, Rivas A. Operative Strategy in Lateral Skull base Reconstruction: Comparative of Rigid and Non Rigid Techniques. North American Skull Base Society Annual Meeting. San Antonio, TX. February 2020.
3. Khattab MH*, Sherry AD, Whitaker R, Cmelak AJ, Attia A. A Retrospective Cohort Study of Longitudinal Assessment in Single and Fractionated Stereotactic Radiosurgery for Vestibular Schwannoma. Frontiers of Radiosurgery Conference of the Radiosurgical Society. Milan, Italy. October 24, 2019. *Cureus*. 2019;11(10):a428.
4. Khattab MH*, Sherry AD, Manzoor NF, Attia A, Cmelak AJ. Longitudinal Radiographic Outcomes of Vestibular Schwannoma in Single and Fractionated Stereotactic Radiosurgery. Frontiers of Radiosurgery Conference of the Radiosurgical Society. Milan, Italy. October 24, 2019. *Cureus*. 2019;11(10):a426.
5. Anderson JL*, Newman NB, Anderson C, Sherry AD, Osmundson E. Mean cardiopulmonary dose and vertebral bone marrow dose differentially predict lineage-specific leukopenia kinetics during radiotherapy for esophageal cancer. American Society for Radiation Oncology Annual Meeting. Chicago, IL. Sept 17, 2019. *Int J Radiat Oncol Biol Phys*. 2019;105(1):S132.
6. Sherry AD*, Newman NB, Anderson JL, Osmundson EO. Platelet-Lymphocyte and Lymphocyte-Monocyte Ratio Association with Vertebral Body Irradiation and Disease Progression in Esophageal Chemoradiotherapy. American College of Radiation Oncology Annual Meeting. Orlando, FL. March 7, 2019. *J Radiat Oncol*. 2019;8(2):105-106.
7. Sherry AD*, Newman NB, Chakravarthy AB, Rafat M. Acute Post-Radiotherapy Inflammation Predicts Recurrence and Mortality in Stage I-III Triple-Negative Breast Cancer. Vanderbilt-Ingram Cancer Center Breast Cancer Research Program Annual Retreat. Nashville TN. Jan 7, 2019.
8. Sherry AD*, Newman NB, Anderson JL, Osmundson EO. Hematologic Toxicity During Esophageal Chemoradiation: Dosimetric Analysis of Bone Marrow vs. Circulatory System Irradiation. Career Interest Group Abstract Forum, American Society of Clinical Oncology Annual Meeting. Chicago, IL. Jun 2, 2018.

Poster Presentations & Peer-Reviewed Abstracts (*presenting author)

1. Manzoor NF*, Totten DJ, Yancey KL, Sherry AD, Yawn RJ, Thompson RC, Haynes DS, Rivas A. Comparative Analysis of Autograft and Xenograft based Multilayer Lateral Skull Base Reconstruction for Encephalocele and CSF Leaks. North American Skull Base Society Annual Meeting. San Antonio, TX. February 2020.

2. Xu MC*, Khattab MH, Luo GZ, Sherry AD, Anderson JL, Attia A, Cmelak AJ. Dosimetric comparison of cone and multileaf collimator based linear accelerator radiosurgery for arteriovenous malformations. American College of Radiation Oncology Annual Meeting. Fort Lauderdale, FL. February 27, 2019. *J Radiat Oncol*.
3. Hunter N*, Parsons H, Sherry AD, Shinn D, Shin DH, Cole A, Cragnotti G, Groginski T, Leathers M, Richardson A, Argani P, Wolff A, Cope L, Edelstein D, Holtrup F, Sloane H, Chakravarthy B, Stearns V, Park BH. TBCRC 040: Pathologic response evaluation and detection in circulating tumor DNA (PREDICT DNA): Initial results piloting a tissue-biopsy independent method of identifying and monitoring tumor-specific mutations in early stage breast cancer. San Antonio Breast Cancer Symposium. San Antonio, TX. December 14, 2019. *Cancer Res*.
4. Sherry AD*, Newman NB, Mayer I, Chakravarthy AB, Rafat M. Post-Radiotherapy Inflammation Predicts Recurrence and Mortality in Stage I-III Triple-Negative Breast Cancer. American Society for Radiation Oncology Annual Meeting. Chicago, IL. Sept 15, 2019. *Int J Radiat Oncol Biol Phys*. 2019;105(1):e33.
5. Sherry AD*, Mayer I, Ayala-Peacock D, Abramson V, Rexer B, Chakravarthy AB. Combining Adjuvant Radiotherapy with Capecitabine Appears to be Safe and Feasible for Chemotherapy-Resistant Breast Cancer. American Society for Radiation Oncology Annual Meeting. Chicago, IL. Sept 15, 2019. *Int J Radiat Oncol Biol Phys*. 2019;105(1):e33-e34.
6. Sherry AD*, Bingham B, Kim E, Luo G, Chambless L, Cmelak A. Radiation-Induced Malignancy following Stereotactic Radiosurgery for Benign Intracranial Pathology. American Society for Radiation Oncology Annual Meeting. Chicago, IL. Sept 16, 2019. *Int J Radiat Oncol Biol Phys*. 2019;105(1):e557.
7. Sherry AD*, Newman NB, Anderson JL, Osmundson EO. Inflammation with Lymphopenia during Chemoradiotherapy Predicts Recurrence and Mortality in Locally Advanced Esophageal Carcinoma. American Society for Radiation Oncology Annual Meeting. Chicago, IL. Sept 17, 2019. *Int J Radiat Oncol Biol Phys*. 2019;105(1):e197.
8. Anderson J*, Khattab MH, Anderson C, Sherry AD, Luo G, Manzoor N, Attia A, Netterville J, Cmelak A. Long Term Outcomes for the Treatment of Paragangliomas in the Upfront, Adjuvant, and Salvage Settings with Stereotactic Radiosurgery and Intensity Modulated Radiotherapy. American Society for Radiation Oncology Annual Meeting. Chicago, IL. Sept 16, 2019. *Int J Radiat Oncol Biol Phys*. 2019;105(1):e552.
9. Sherry AD*, Newman NB, Gutkin P, Eyben RV, Mayer I, Horst K, Chakravarthy AB, Rafat M. Post-Radiotherapy Inflammation Predicts Recurrence and Mortality in Stage II-III Triple-Negative Breast Cancer. Vanderbilt-Ingram Cancer Center Annual Scientific Retreat. Nashville, TN. May 1, 2019.
10. Sherry AD*, Anderson JL, Bradshaw M, Wharton D, Brett C, Delbeke D, Shinohara E, Borinstein S. Persistent [¹⁸F]Fluorodeoxyglucose Positron Emission Tomography Avidity after Definitive Radiotherapy and Outcome in Ewing Sarcoma and Rhabdomyosarcoma. American College of Radiation Oncology Annual Meeting. Orlando, FL. March 9, 2019. *J Radiat Oncol*. 2019;8(2):110.
11. Sherry AD*, Khattab MH, Stallings C, Wharton D, Webb G, Manzoor N, Rivas A, Davis T, Chambless L, Attia A, Cmelak AJ. Cuboidal, Ellipsoidal, and Spherical Tumor Volume Models of Vestibular Schwannoma after Stereotactic Radiosurgery. American College of Radiation Oncology Annual Meeting. Orlando, FL. March 9, 2019. *J Radiat Oncol*. 2019;8(2):135.
12. Li B, Sherry AD*, Bajpai S, Oladeru O, Castaneda S, Anderson JL, Trump S, Gonzales G, Newman NB, Morales M, Ayala-Peacock D, Mula-Hussain L, Roa D on behalf of Rayos Contra Cancer, Inc. The Concept, Design, and Formation of Rayos Contra Cancer: Ready to Address Global Health Radiotherapy Gaps. International Cancer Experts Corp Annual Conference. Washington, DC. February 14, 2019.

13. Li B, Castaneda S, Oladeru O, Sherry AD*, Ning M, Perez T, Sarria G, Anderson JL, Lo C, Morales M, Peacock-Ayala D, Roa D, Mula-Hussain L, Jhingran A on behalf of Rayos Contra Cancer, Inc. Regional Analysis of Radiotherapy Planning Differences: Latin American Cooperative Study 1 (LACOS-1) Baseline Results and Next Steps. International Cancer Experts Corp Annual Conference. Washington, DC. February 14, 2019.
14. Newman NB*, Sherry AD, Anderson JL, Osmundson EO. Dose Dependent Association of Vertebral Body Irradiation and Lymphopenia During Chemoradiation for Esophageal Cancer. American Society for Radiation Oncology Annual Meeting. San Antonio, TX. Oct 21, 2018. *Int J Radiat Oncol Biol Phys.* 2018;102(3):e37-e38.
15. Khattab MH, Sherry AD, Anderson JL*, Kim E, Yu H, Luo G, Yock A, Morales M, Cmelak AJ, Attia A. Obesity predicts poor outcomes to stereotactic radiosurgery for trigeminal neuralgia. American Society for Radiation Oncology Annual Meeting. San Antonio, TX. Oct 23, 2018. *Int J Radiat Oncol Biol Phys.* 2018;102(3):e433-e434.

TEACHING EXPERIENCE:

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| 2019 - 2020 | Students as Teachers, VUSM <ul style="list-style-type: none"> • 30 hours of teaching junior medical students for academic credit |
| 2014 - 2016 | Kaplan Test Prep, Inc. <ul style="list-style-type: none"> • Faculty Instructor MCAT, DAT, OAT; Tutor |

RESEARCH EXPERIENCE:

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| 2019 – 2020 | Proton Head and Neck Radiotherapy <ul style="list-style-type: none"> ▪ Mentor: Steven Frank, MD, Radiation Oncology, MD Anderson Cancer Center <ul style="list-style-type: none"> • Project 1: Proton Radiotherapy for Head and Neck Carcinoma of Unknown Primary: A Prospective Toxicity and Quality of Life Study (NCT01627093 and NCT00991094) <ul style="list-style-type: none"> ○ Status: Manuscript submitted |
| 2018 – present | Radiation for Chemotherapy-Resistant Triple-Negative Breast Cancer <ul style="list-style-type: none"> ▪ Mentor: Bapsi Chakravarthy, MD, Radiation Oncology, VUMC <ul style="list-style-type: none"> • Project 2: Adjuvant Capecitabine with Concurrent Radiotherapy for Chemotherapy-Resistant Triple-Negative Breast Cancer: A Prospective Feasibility Trial (NCT03958721) <ul style="list-style-type: none"> ○ Status: Trial open to accrual • Project 3: Toxicity and Feasibility of Combining Adjuvant Capecitabine with Radiation for Chemotherapy-Resistant Triple-Negative Breast Cancer <ul style="list-style-type: none"> ○ Status: Presentation at national meeting, submitted manuscript • Project 4: MRI Evaluation of Breast Tumor Growth and Treatment Response (NCT0047604) <ul style="list-style-type: none"> ○ Status: Trial closed to accrual ▪ Co-Mentor: Marjan Rafat, PhD, Department of Biomolecular Engineering, VU <ul style="list-style-type: none"> • Project 5: Systemic Inflammation after Radiotherapy Predicts Recurrence and Mortality in Stage II-III Triple-Negative Breast Cancer <ul style="list-style-type: none"> ○ Status: Presentation at national meeting, published manuscript ▪ Mentor: Ben Ho Park, MD, PhD, Department of Medicine, VUMC <ul style="list-style-type: none"> • Project 6: Pathologic Response Evaluation and Detection In Circulating Tumor DNA (PREDICT DNA): Initial results piloting a tissue-biopsy independent method of identifying and monitoring tumor-specific mutations in early stage breast cancer (NCT02743910) <ul style="list-style-type: none"> ○ Status: Presentation at national meeting; trial closed to accrual |

2018 - 2019	<p>Quality Improvement in Radiation Oncology</p> <ul style="list-style-type: none"> ▪ Mentors: Rachel Conklin, MMS, PA-C, Evan Osmundson, MD, PhD, Radiation Oncology, VUMC <ul style="list-style-type: none"> • Project 7: Enhancing Radiation Oncology Survivorship Delivery <ul style="list-style-type: none"> ○ Status: Initial phase completed
2018 - present	<p>Advanced Techniques in Radiation Delivery and Bimodality Therapy</p> <ul style="list-style-type: none"> ▪ Mentor: Austin Kirschner, MD, PhD, Radiation Oncology, VUMC <ul style="list-style-type: none"> • Project 8: IMRT is Superior to 3D-CRT for the Treatment of Bladder Cancer and Daily CBCT Optimizes Dose Delivery <ul style="list-style-type: none"> ○ Status: Published manuscript • Project 9: Diffuse Primary Cutaneous Anaplastic Large Cell Lymphoma Treated by Rotational Total Skin Electron Beam Radiotherapy with Custom Shielding: Case Report <ul style="list-style-type: none"> ○ Status: Published manuscript • Project 10: Radiation-associated epithelial-myoepithelial carcinoma among five secondary malignancies: A case report and review of literature <ul style="list-style-type: none"> ○ Status: Published manuscript • Project 11: Autoimmune Paraneoplastic Syndrome Associated with Checkpoint Inhibition and Concurrent Radiotherapy for Merkel Cell: Case Report <ul style="list-style-type: none"> ○ Status: Submitted manuscript ▪ Mentor: Evan Osmundson, MD, PhD, Radiation Oncology, VUMC <ul style="list-style-type: none"> • Project 12: Stereotactic body radiotherapy versus conventional radiotherapy for early-stage small cell lung cancer <ul style="list-style-type: none"> ○ Status: Published manuscript ▪ Mentor: Anthony Cmelak, MD, Radiation Oncology, VUMC <ul style="list-style-type: none"> • Project 13: Endovascular High Dose Rate Brachytherapy for the Prevention of Carotid In-Stent Stenosis <ul style="list-style-type: none"> ○ Status: Trial in development, not open to accrual
2017 - 2020	<p>Inflammatory and Immunologic Response to Radiotherapy in Esophageal Cancer</p> <ul style="list-style-type: none"> ▪ Mentor: Evan Osmundson, MD, PhD, Radiation Oncology, VUMC <ul style="list-style-type: none"> • Project 14: Clinical and Dosimetric Predictors of Lymphopenia in Esophageal Carcinoma <ul style="list-style-type: none"> ○ Status: Presentation at national meeting, submitted manuscript • Project 15: Systemic Inflammatory Dynamics during Chemoradiotherapy Predict Response, Recurrence, Progression, and Mortality in Esophageal Carcinoma <ul style="list-style-type: none"> ○ Status: Presentation at national meeting, published manuscript
2016 - present	<p>Stereotactic Radiosurgery in the Treatment of Non-Malignant Neurologic Disease</p> <ul style="list-style-type: none"> ▪ Mentors: Albert Attia, MD, Anthony Cmelak, MD, Radiation Oncology, VUMC <ul style="list-style-type: none"> • Project 16: Secondary Malignancy following Stereotactic Radiosurgery for Benign Neurologic Disease <ul style="list-style-type: none"> ○ Status: Presentation at national meeting, accepted manuscript • Project 17: Current Volumetric Models Overestimate Vestibular Schwannoma Size Following Stereotactic Radiosurgery <ul style="list-style-type: none"> ○ Status: Presentation at national meeting, published manuscript • Project 18: A Retrospective Cohort Study of Longitudinal Audiologic Assessment in Single and Fractionated Stereotactic Radiosurgery for Vestibular Schwannoma <ul style="list-style-type: none"> ○ Status: Published manuscript • Project 19: Longitudinal Radiographic Outcomes of Vestibular Schwannoma in Single and Fractionated Stereotactic Radiosurgery: A Retrospective Cohort Study <ul style="list-style-type: none"> ○ Status: Published manuscript

- Project 20: Body Mass Index and Response to Stereotactic Radiosurgery in the Treatment of Refractory Trigeminal Neuralgia
 - Status: Presentation at national meeting, accepted manuscript
- Project 21: Pediatric Stereotactic Radiosurgery for Benign Neurologic Disease: a 25-Year Institutional Experience
 - Status: Presentation at national meeting, manuscript submitted
- Project 22: Cingulotomy by Stereotactic Radiosurgery for Refractory Pain: Pilot Study
 - Status: Trial in development, not open to accrual
- Project 23: Capsulotomy by Linear Accelerator-Based Stereotactic Radiosurgery for Intractable Obsessive-Compulsive Disorder: Pilot Study
 - Status: Trial in development, not open to accrual
- Project 24: Feasibility, Outcomes, and Toxicity of Fractionated Stereotactic Radiosurgery for Refractory Functional Pituitary Adenoma
 - Status: Manuscript submitted
- Project 25: Single-Fraction and Fractionated Stereotactic Radiosurgery for Refractory Inactive Cell Pituitary Adenoma: A Retrospective Cohort Study
 - Status: Manuscript submitted
- Project 26: Single-Fraction and Fractionated Stereotactic Radiosurgery for Refractory Cushing's Disease: A Retrospective Cohort Study
 - Status: Published manuscript
- Project 27: Staged Radiotherapy after Subtotal Resection of Endolymphatic Sac Tumors for Cranial Nerve Preservation
 - Status: Accepted manuscript
- Project 28: Dose Escalation for Vestibular Schwannoma Following Subtotal Resection
 - Status: Manuscript submitted
- Project 29: Three-dimensional Angiography and Embolization Prior to Stereotactic Radiosurgery for Arterio-Venous Malformation
 - Status: Manuscript submitted
- Project 30: Long Term Outcomes for the Treatment of Paragangliomas in the Upfront, Adjuvant, and Salvage Settings with Stereotactic Radiosurgery and Intensity Modulated Radiotherapy
 - Status: Published manuscript

2016 - 2020

Undergraduate Medical Education

- Mentor: Amy Fleming, MD, Dean of Student Affairs, VUSM
 - Project 31: Fundamental Curriculum Reform with 1-Year Pre-Clerkship Phase and Effect on Stress Associated with Residency Specialty Selection
 - Status: Published manuscript
 - Project 32: The Sooner the Better: High Value Care Education in Medical School
 - Status: Published manuscript
 - Project 33: Incorporating Formative Assessments into the Preclerkship Lecture
 - Status: Published manuscript
 - Project 34: Applying the Hidden Curriculum Perspective to Medical Ethics Education
 - Status: Accepted manuscript

2013 - 2016

Bench Research

- Mentor: Beverly Koller, PhD, Genetics, UNC-CH
 - Project 35: Assessing Glutathione S-transferase Metabolism of Carcinogens in Humanized Mice using Chemometrics-Assisted Spectroscopy
 - Status: Completed

PROFESSIONAL MEMBERSHIPS:

American Society for Radiation Oncology
American College of Radiation Oncology
American Society of Clinical Oncology
American Association for Cancer Research
Catholic Medical Association
Alpha Omega Alpha
Phi Beta Kappa

HOBBIES:

I enjoy hiking, camping, backpacking, skiing, and swimming, as well as investing, traveling, and spending time with my wife Carrie and our greyhound, Jade. I regularly attend the local symphony and opera, as well as watch college/professional football. I am an active member of my Roman Catholic church community and participate in a biweekly group reflecting on historical/religious writing.