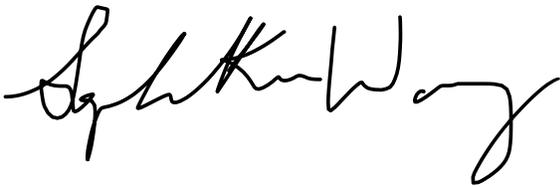


To the members of ARRO,

As the Communications and Advocacy subcommittee member, I plan to continue the current framework of internal communication through the ARROgram and social media. I also plan to update the current site with upcoming opportunities in research, industry, and more. Further, I would like to develop frameworks with providers in oncologic and benign disease sites to further advocate the role of radiation medicine beyond our traditional role. This may include having a multidisciplinary meeting and conducting surveys at several institutions with providers in these benign disease sites to then develop a referral network. If successful, this can then be translated at other institutions as well to help increase awareness of the role of radiation therapy. Therefore, my primary goals will be to continue providing updated communications internally as well as externally to expand our scope in radiation medicine.

Best,

A handwritten signature in black ink, appearing to read 'Sophia Kim-Wang'. The signature is fluid and cursive, with the first name 'Sophia' being the most prominent.

Sophia Kim-Wang

Radiation Oncology, PGY3

University of Chicago

CURRICULUM VITAE: Sophia Y. Kim-Wang, M.D., Ph.D.

DEMOGRAPHIC INFORMATION

I. Current Appointment

Radiation Oncology Resident (PGY3), University of Chicago

II. Personal Data

Full name: Sophia Yoona Kim-Wang

III. Education and Professional Training

2024-present	University of Chicago Radiation Oncology	resident
2023-2024	Duke University Internal Medicine	preliminary intern
2017-2023	Duke University School of Medicine	M.D./Ph.D.
	Durham, NC, USA	
2015-2017	University of Central Florida	M.D.
	Orlando, FL, USA	(transferred to Duke)
2009-2013	Duke University	B.S.
	Durham, NC, USA	

IV. Employment

2013-2014	DeFrate Lab	Research Technician
	Durham, NC, USA	
2014-2015	Accenture LLC	Technology Analyst
	Raleigh, NC, USA	

ORGANIZATIONAL ACTIVITIES

I. Professional Affiliations

American Society for Radiation Oncology

RECOGNITION

I. Awards

- 2017 Women's Health Issues Advisory Board of the American Academy of Orthopaedic Surgeons 2017 Poster Award: "Comparison of male and female knee kinematics at the time of non-contact ACL injuries determined via bone bruises"
- 2015-2019 University of Central Florida College of Medicine Institutional Scholarship
- 2013 Graduation with Distinction in Biomedical Engineering
- 2011, 2013 Dean's List

II. Grants

- 2018 Image Based Biomedical Modeling Fellowship
- 2011-2013 Pratt Research Fellowship

RESEARCH

In-Press and Accepted Publications

1. Kabarriti R, Lloyd S, Jabalee J, Gay LM, Slater T, Guzman K, Jacobs C, Inocencio S, Lin R, Nguyen C, MacEwan I, Crawford AH, Rutenberg M, Singh J, Ross J, **Kim-Wang S**, Mattiesen C, Neff K, Liu GF, Jaurez TM, Liauw SL. Resolving clinically indeterminate findings during anal cancer surveillance with TTMV-HPV DNA. *Cancers*. 2025 December. PMID: 41514548.
2. Bradley PX, **Kim-Wang SY**, Blaisdell BS, Riofrio AD, Collins AT, Heckelman LN, Obunadike EC, Widmyer MR, Paranjape CS, Crook BS, Lad NK, Sutter EG, Mann BP, Spritzer CE, DeFrate LE. Tibiofemoral cartilage strain and recovery following a 3-mile run measured using deep learning segmentation of bone and cartilage. *Osteoarth Cartil Open*. 2024 Dec. PMID: 39802079.
3. **Kim-Wang SY**, Bradley PX, Cutcliffe HC, Collins AT, Crook BS, Paranjape C, Spritzer CE, DeFrate LE. Auto-segmentation of the tibia and femur from knee MR images via deep learning and its application to cartilage strain and recovery. *J Biomech*. 2023 Mar. PMID: 36791514.

4. **Kim-Wang SY**, Spritzer, CE, Owusu-Akyaw KA, Coppock J, Goode AP, Englander ZE, Wittstein JR, DeFrate LE. The predicted position of the knee near the time of ACL rupture is similar between 2 commonly observed patterns of bone bruising on MRI. *Am J Sports Med.* 2022 Nov. PMID: 36440714.
5. **Kim-Wang SY**, Scribani MB, Whiteside MB, DeFrate LE, Lassiter TE, Wittstein JR. Distribution of bone contusion patterns in acute noncontact ACL torn knees. *Am J Sports Med.* 2021 Feb. PMID: 33411563.
6. **Kim-Wang SY**, Holt AG, Toth AP, Garrett WE, Wittstein JR, DeFrate LE, McNulty AL and Yi JS. Immune cell profiles in synovial fluid after anterior cruciate ligament and meniscus injuries. *Arthritis Res Ther.* 2021 Nov. PMID: 34736523.
7. DeFrate LE, **Kim-Wang SY**, Englander ZA, McNulty AL. Osteoarthritis year in review 2018: mechanics. *Osteoarthritis Cartilage.* 2019 Mar. PMID: 30597275.
8. Taylor KA, Collins AT, Heckelman LN, **Kim SY**, Utturkar GM, Spritzer CE, Garrett WE, DeFrate LE. Activities of daily living influence tibial cartilage T1rho relaxation times. *J Biomech.* 2019 Jan. PMID: 30455059.
9. Collins AT, Hatcher CC, **Kim SY**, Ziemian SN, Spritzer CE, Guilak F, McNulty AL, DeFrate LE. Selective enzymatic digestion of proteoglycans and collagens alters cartilage T1rho and T2 relaxation times. *Ann Biomed Eng.* 2019 Jan. PMID: 30288634.
10. Owusu-Akyaw KA, **Kim SY**, Spritzer, CE, Collins AT, Utturkar GM, Garrett WE, DeFrate LE. Determination of the position of the knee at the time of an anterior cruciate ligament rupture for male versus female patients by an analysis of bone bruises: Response. *Am J Sports Med.* 2018 Sep. PMID: 30169145.
11. Owusu-Akyaw KA, **Kim SY**, Spritzer, CE, Collins AT, Utturkar GM, Garrett WE, DeFrate LE. Determination of the position of the knee at the time of an anterior cruciate ligament rupture for male versus female patients by an analysis of bone bruises. *Am J Sports Med.* 2018 June. PMID: 29667852.
12. Hatcher CC, Collins AT, **Kim SY**, Michel LC, Mostertz WC, Ziemian SN, Spritzer CE, Guilak F, DeFrate LE, McNulty AL. Relationship between T1rho magnetic resonance imaging, synovial fluid biomarkers, and the biochemical and biomechanical properties of cartilage. *J Biomech.* 2017 Apr 11. PMID: 28237185.
13. **Kim SY**, Spritzer CE, Utturkar GM, Toth AP, Garrett WE, DeFrate LE. Knee kinematics during noncontact anterior cruciate ligament injury as determined from bone bruise location. *Am J Sports Med.* 2015 Aug 11. PMID: 26264770.

Oral presentations:

1. **Kim-Wang SY**, Rajeev-Kumar G, Che Y, Wu T, Arshad M, Solanki A, Liauw S. Optimizing Radiation Therapy for Prostate Cancer: Can Dose Reduction to the Pudendal Arteries Preserve Sexual Health? Abstract No 71390. *ASTRO, 2025 Annual Meeting. San Francisco, CA. 2025 September 29.*
2. Son CH, **Kim-Wang SY**, Sohn J, Al-Hallaq H, Cursio J, McCall A, Malik R, Golden D, Kurnit K, Chipman J, Suneja G, Gaffney D, Hasan Y. Multi-Institutional Phase I Results from RT-PACE: Phase I/II Study of Adjuvant Whole Pelvic Hypofractionated Radiotherapy for Non-Metastatic Cervical and Endometrial Cancer. Abstract No 70177. *ASTRO, 2025 Annual Meeting. San Francisco, CA. 2025 September 29.*
3. **Kim-Wang SY**, Cutcliffe HC, Collins AT, Crook BS, Paranjape C, Roh K, Spritzer CE, DeFrate LE. Deep learning automated segmentation of bone from magnetic resonance images: Application to the measurement of cartilage sprain from loading. Paper No 0331. *Orthopaedic Research Society, 2022 Annual Meeting. Tampa, FL. 2022 Feb 8.*
4. **Kim-Wang SY**, Holt AG, McGowan AM, Danyluk ST, Lau BC, Toth AP, Wittstein JR, DeFrate LE, Yi JS, McNulty AL. Immune cell profiles in synovial fluid after anterior cruciate ligament and meniscus injuries. Paper No 0254. *Orthopaedic Research Society, 2021 Annual Meeting. Virtual 2021 Feb 13-16.*
5. Owusu-Akyaw KA, **Kim SY**, Spritzer, CE, Collins AT, Utturkar GM, Garrett WE, DeFrate LE. Comparison of male and female knee kinematics at the time of non-contact anterior cruciate ligament injury determined via bone bruises. Poster No 232. *Orthopaedic Research Society, 2017 Annual Meeting. San Diego, CA. 2017 Mar 19-22.*
6. Cox CE, **Kim SY**, Collins AT, Ziemian S, Spritzer CE, Guilak F, McNulty AL, DeFrate LE. Relationship between quantitative T1rho and T2 relaxation times and the biochemical and biomechanical properties of osteoarthritic cartilage. Poster No 1224. *Orthopaedic Research Society, 2015 Annual Meeting. Las Vegas, NV. 2015 Mar 28-29.*
7. Collins AT, **Kim SY**, Cox CE, Ziemian S, Spritzer CE, Guilak F, McNulty AL, DeFrate LE. Evaluation of the compositional and functional properties of articular cartilage using T1rho and T2 relaxation imaging. Poster No 0786. *Orthopaedic Research Society, 2015 Annual Meeting. Las Vegas, NV. 2015 Mar 28-29.*
8. Michel LC, Spritzer CE, Utturkar GM, **Kim SY**, Moorman CT, Garrett WE, DeFrate LE. Walking decreases T1rho relaxation times in the articular cartilage of the knee. Paper No 0076. *Orthopaedic Research Society, 2015 Annual Meeting. Las Vegas, NV. 2015 Mar 29.*
9. **Kim SY**, Spritzer CE, Utturkar GM, Toth AP, Garrett WE, DeFrate LE. Knee kinematics during non-contact ACL injury as determined from location of bone bruises. Paper No 0172. *Orthopaedic Research Society, 2014 Annual Meeting, New Orleans, LA. 2014 Mar 17.*

Poster presentations

1. Bradley PX, **Kim-Wang SY**, Cutcliffe HC, Collins AT, Crook BS, Paranjape CS, Spritzer CE, DeFrate LE. Auto-segmentation of the distal femur produces accurate and repeatable 3D bone models. Poster 2247. *Orthopaedic Research Society, 2023 Annual Meeting. Dallas, TX. 2023 Feb 14.*
2. **Kim-Wang SY**, Owusu-Akyaw KA, Wittstein JR, Spritzer CE, DeFrate LE. Do different bone bruise patterns indicate different ACL injury mechanisms? Poster No 0718. *Orthopaedic Research Society, 2020 Annual Meeting. Phoenix, AZ. 2020 Feb 7-11.*
3. **Kim-Wang SY**, Scribani MB, Whiteside MB, Lassiter TE, DeFrate LE, Wittstein JR. Distribution of bone contusion patterns in acute noncontact ACL torn knees. Poster No 1912. *Orthopaedic Research Society, 2020 Annual Meeting. Phoenix, AZ. 2020 Feb 7-11.*
4. **Kim-Wang SY**, Owusu-Akyaw KA, Spritzer CE, Cutcliffe HC, Garrett WE, DeFrate LE. Numerical optimization of bone bruises to determine anterior cruciate ligament injury knee kinematics: Comparison of two different bone bruise patterns. Poster No 2237. *Orthopaedic Research Society, 2019 Annual Meeting. Austin, TX. 2019 Feb 1-5.*
5. Owusu-Akyaw KA, **Kim SY**, Spritzer, CE, Collins AT, Utturkar GM, Garrett WE, DeFrate LE. Comparison of male and female knee kinematics at the time of non-contact anterior cruciate ligament injury determined via bone bruises. Poster No 232. *Orthopaedic Research Society, 2017 Annual Meeting. San Diego, CA. 2017 Mar 19-22.*
6. Cox CE, **Kim SY**, Collins AT, Ziemian S, Spritzer CE, Guilak F, McNulty AL, DeFrate LE. Relationship between quantitative T1rho and T2 relaxation times and the biochemical and biomechanical properties of osteoarthritic cartilage. Poster No 1224. *Orthopaedic Research Society, 2015 Annual Meeting. Las Vegas, NV. 2015 Mar 28-29.*
7. Collins AT, **Kim SY**, Cox CE, Ziemian S, Spritzer CE, Guilak F, McNulty AL, DeFrate LE. Evaluation of the compositional and functional properties of articular cartilage using T1rho and T2 relaxation imaging. Poster No 0786. *Orthopaedic Research Society, 2015 Annual Meeting. Las Vegas, NV. 2015 Mar 28-29.*