

Name: McCullough, Kiernan, T

EDUCATION

Institution Name	Degree	Year Awarded	Field of Study
Purdue University	BS	2010	Nuclear Engineering
University of Kentucky	MS	2012	Medical Physics

POSTGRADUATE TRAINING

Institution Name	Start & End Dates	Nature of Training
University of Louisville	2012-2014	Medical Physics Residency – CAMPEP Accredited

ACADEMIC APPOINTMENTS

Institution, Department	Start & End Dates	Position or Rank
None		

HOSPITAL and OTHER APPOINTMENTS

Hospital, Clinical, Company etc.	Start & End Dates	Position or Title
Colorado Associates in Medical Physics	2014 – 2019	Medical Physicist
Colorado Associates in Medical Physics	2019-2021	Lead Clinical Therapy Physicist
Colorado Associates in Medical Physics	2021-Current	Chief of Therapeutic Physics

CERTIFICATION, REGISTRATION and LICENSURE

Granting Body	Specialty	Year Granted	Year of Next MOC
American Board of Radiology	Therapeutic Medical Physics	2015	Valid through 2025
Colorado Dept of Public Health and Environment (CDPHE)	Registered Medical Physics	2014	Expires 2023

ACADEMIC SUPERVISION

None

ROLES IN THE PROGRAM

Steering Committee Member
Mentor for Shielding and Stereotactic 1 Rotations

CLINICAL RESPONSIBILITIES

Scheduling and operational responsibilities for Therapy physicists at CAMP
Clinical coverage, either primary or support, for multiple centers.
Participate in on-going QA, SOP creation, and machine performance evaluation.
Treatment planning for SBRT, SRS, and HDR.

Nuclear medicine patient consultation for I-131 and contouring dose calculation for Y-90.			
SCHOLARLY ACTIVITIES			
Co-Author of MPPG8b: Linear Accelerator QA Steering Committee for Medical Physics QA development company Wild Dog Physics, LLC			
RESEARCH INTERESTS			
Quality Assurance optimization Treatment planning standardization and scripting Quality assurance and treatment delivery tool development Workflow optimization			
RESEARCH SUMMARY			
Type	Total	Last 5 years	
Peer-reviewed papers in referred journals	4	1	
Book chapters & conference proceedings	0	0	
Published Abstracts	4	2	
Presentations at national/international conferences	1	0	
RESEARCH FUNDING SUPPORT			
Source of Funding	Title of Research Grant	Dates of Support	Funding Amount

LIST OF SELECTED PUBLICATIONS – Reverse Chronological Order

Anuj V. Peddada, Danyon Anderson, Olivier C. Blasi, **Kiernan McCullough**, Scott B. Jennings, Alan T. Monroe. Nephron-Sparing Robotic Radiosurgical Therapy for Primary Renal Cell Carcinoma: Single-Institution Experience and Review of the Literature, *Advances in Radiation Oncology*, 2019

Sarkar, Vikren, Brian Wang, Hui Zhao, Bart Lynch, Joshua A. James, **Kiernan T. McCullough**, & Bill J. Salter. Percent depth-dose distribution discrepancies from very small volume ion chambers. *Journal of Applied Clinical Medical Physics* [Online], 16.2 (2015) **2016 AAPM Radiation Measurement Award Winner**

Kiernan McCullough, Joshua A. James, Ashley J. Cetnar, Mark A. McCullough, & Brian Wang. Site-specific tolerance tables and indexing device to improve patient setup reproducibility. *Journal of Applied Clinical Medical Physics*[Online], 16.3 (2015)

Li Shen, Jing Wang, Sungeun Kim, **Kiernan McCullough**, Kwangsik Nho, Shanker Swaminathan, John D. West, Shiaofen Fang, Tara McHugh, Laura A. Flashman, Heather A. Wishart, Laura A. Rabin, C. Harker Rhodes, Stephen J. Guerin, Jason H. Moore, Robert B. Santulli, Andrew J. Saykin. Association analysis of candidate SNPs on hippocampal volume and shape in mild cognitive impairment and older adults with cognitive complaints. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* , Volume 6 , Issue 4 , S137 - S138