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Christian J. Park, DO, MBA, CIIP

Executive Summary and Areas of Expertise

Dual board-certified Diagnostic Radiologist and Nuclear Medicine Physician. Medical Imaging Informaticist (CIIP) with an MBA and extensive leadership experience in enterprise-level clinical AI integration. Currently serving as the Medical Director of Clinical Artificial Intelligence for Penn State Health Virtual Health and Director of Artificial Intelligence for Radiology. Qualified to provide expert consultation, report review, and testimony regarding:

Diagnostic Radiology & Nuclear Medicine: Standard of care, missed diagnoses, and imaging interpretation (MRI, CT, PET).

Clinical Artificial Intelligence: AI/Deep Learning implementation, algorithm validation, and the financial/clinical impact of generative AI in healthcare.

Imaging Informatics: PACS architecture, Zero-Footprint PACS, Electronic Medical Record (EMR) AI integration, and radiology workflow systems.

Corporate Healthcare Innovation: Medical device/software product management, hospital operations, and technology procurement.

Board Certification, Licensure and Credentials

Diplomate, Diagnostic Radiology, American Board of Radiology (ABR)
Subspecialty Board Certification, Nuclear Medicine, American Board of Radiology (ABR)
Certified Imaging Informatics Professional (CIIP), American Board of Imaging Informatics (03/2023)

Education

07/2013-06/2018, Doctor of Osteopathic Medicine, Alabama College of Osteopathic Medicine, Dothan, AL.
08/2004-12/2008, Bachelor of Science, Molecular, Cellular and Developmental Biology, University of Michigan, Ann Arbor, MI.
07/2019-05/2022, Master of Business Administration, Pennsylvania State University Smeal College of Business, State College, PA.
07/2019-12/2021, Graduate Certificate in Corporate Innovation and Entrepreneurship, Pennsylvania State University Smeal College of Business, State College, PA.

Clinical Training

Chief Resident, Penn State Milton S. Hershey Medical Center Diagnostic Radiology Residency with 16-Month Pathway in Nuclear Medicine Subspecialty Certification (ABR), 07/2019-6/2023, Penn State Milton Hershey Medical Center, Hershey, PA
Transitional Year Residency, 07/2018-6/2019, Firelands Regional Medical Center, Sandusky, OH

Honors

Academic Gold Honors, Smeal College of Business - Pennsylvania State University, June 2022
Roentgen Resident/Fellow Research Award, 2021, Radiological Society of North America
Sigma Sigma Phi Honor Society, Alpha Beta Chapter, 2015. National Osteopathic Honor and Service Fraternity

Committees and Offices Held

Medical Director, Clinical Artificial Intelligence, Virtual Health: Penn State Health, 08/2023 to present.
Director of Artificial Intelligence and Clinical Operations, Radiology and Nuclear Medicine: Penn State Health Medical Group, 07/2023 to present.
Chief Resident Penn State Milton S. Hershey Medical Center Diagnostic Radiology Residency 07/2022-06/2023
Director of Clinical Bioinformatics and Innovation: Simplify 04/2021-Present.
Trainee Editorial Board Member, Radiology: Artificial Intelligence Journal 09/2020-Present.
Society of Advanced Body Imaging Early Career Committee 07/2020-Present.
Head of Artificial Intelligence Research, Principal Investigator and Co-Founder of Penn State Health Clinical Radiology Research Group 07/2020-Present.
Co-Founder of The American College of Radiology Artificial Intelligence Medical Student Symposium, 07/2019-Present.
Radiology AI Lab Johns Hopkins Malone Center for Engineering in Healthcare, Collaborator, 12/2019-Present.
Penn State Milton S. Hershey Medical Center Radiology Residency Social Media Chair, 12/2019-Present.
Treasurer-Secretary, Sigma Sigma Phi Honor Society, Alpha Beta Chapter, 07/2015-07/2016.
Treasurer, Student Osteopathic Medical Association ACOM Chapter, 07/2013-07/2015.

Special Training and Certifications

Quality Bone Densitometry: Performance, Interpretation, and Clinical Application for Clinicians, The International Society for Clinical Densitometry, 06/12/2023

Certified Imaging Informatics Professional (CIIP), American Board of Imaging Informatics, 03/2023

Imaging Artificial Intelligence Certificate Program, Radiological Society of North America, 08/2022

Association of University Radiologists Research Scholar Program, American College of Radiology, 05/2021

NIIC SIIM Informatics Training, Society of Imaging Informatics, 09/2019

Invited Lectures

Ashtekar Frontiers of Science Lectures in the Eberly College of Science – The AI Revolution: Using Artificial Intelligence for Socially Responsible Science: Using AI to Improve Patient-Provider Communication.
Penn State University. February 05, 2022

Grants and Fellowships

Pennsylvania Radiological Society Radiology Leadership Institute Scholarship: RLI Leadership Essentials Program
Source: Pennsylvania Radiologic Society and the American College of Radiology

Pennsylvania Radiological Society Radiology Leadership Institute Scholarship: RLI Summit
Source: Pennsylvania Radiologic Society and the American College of Radiology

A Deep Learning Prediction of Hepatocellular Carcinoma Response to Transcatheter Arterial Chemoembolization
Source: Pennsylvania State University School of Engineering Center for Biodevices Innovation Grants
Amount: $1750
PI: Christian J. Park, DO

The Penn State Health Department of Radiology Online Multidisciplinary Radiology Learning Library: An Active Learning Approach to Radiology Education.
Source: The Woodward Center for Excellence in Health Sciences Education Educator-Initiated Projects Program Grant.
Amount: $2499
PI: Christian J. Park, DO, Joseph Fotos, MD, Jeanine Beatty-Chadha, M.Ed, Alison Chetlen, DO.

Artificial Intelligence Medical Student Symposium (AIMS).
Source: American College of Radiology Medical Education and Student Outreach (MESO) Pilot Innovation Grant.
Amount: $5000
PI: Christian J. Park, DO, Paul H. Yi, MD

Ultra-Low Dose Pet/MRI Imaging of Crohn's Disease Using a Novel Deep Learning Reconstruction Method.
Source: Radiological Society of North America Medical Student Grant.
Amount: $6000
Faculty Mentor: Alan McMillan, PhD.

Awards

Featured Abstract at 2022 Society of Interventional Radiology Annual Scientific Meeting
Title: A Deep Learning Prediction of Immediate and Longitudinal Response to Transarterial Chemoembolization as Monotherapy for Hepatocellular Carcinoma. Vu T., Park C., Torres-Ayala S., Foster J. Mittal A., Schick J., Shin B., Cruz J.

Big Ten Augmented Intelligence Bowl Finals: Champion
Source: Institute for Augmented Intelligence in Medicine
Amount: $35,000

Pennsylvania Radiological Society Scientific Exhibit First Place Award 2021
Source: Pennsylvania Radiologic Society
Amount: $500

2021 American College of Radiology – Association of University Radiologist Scholar Program Presenter
Title: Utilizing a Generative Adversarial Network to Produce Realistic Novel Chest Radiographs

2021 Wild Onions Student/Resident Category for Art Winner
Title: Visions of Hokusai: A Chest Radiograph and Hershey Medical Center

Poster Winner – Medical Education Innovation, PA-ACP Statewide Resident and Student Poster and Awards Day 2020
Title: Radiologic Diagnosis of Acute Aortic Syndrome: A Novel Approach to Learning using an Interactive Online Module and Zero Footprint PACS
Authors: Jared Roberts, DO, Allene Burdette MD, **Christian J. Park, DO.**

Best Oral Scientific Presentation at More Science Session, Society for Advanced Body Imaging 2020 Conference
Title: Ultra-low-dose FDG PET/MR Enterography with Deep-Learning Image Reconstruction.
Authors: **C.J. Park DO**, W. Chen MS, D.H. Kim MD, S.B. Perlman MD, J.B. Robbins MD, A. Pirasteh MD, A. McMillan PhD.

3rd Place Scientific Exhibit: Pennsylvania Radiological Society 2020 Conference
Title: Radiologic Diagnosis of Acute Aortic Syndrome: A Novel Approach to Learning using an Interactive Online Module and Zero Footprint PACS
Authors: Jared Roberts, DO, Allene Burdette MD, **Christian J. Park, DO.**

Positions

Staff Radiologist, Radiology: Penn State Medical Group, Hershey, PA, 07/2023 - Present.

Director of Artificial Intelligence and Clinical Operations, Radiology: Penn State Medical Group, 07/2023 - Present.

Assistant Director of Informatics, Radiology: Penn State Health Medical Group, 07/2023 - Present.

Early Career Committee Member, Society of Advanced Body Imaging, Reston, VA
1/2021 – Ongoing

Trainee Editorial Board Member, Radiology: Artificial Intelligence Journal, Oak Brook, IL
11/2020 – Ongoing

Co-founder and Head of Artificial Intelligence Research, Clinical Radiology Research Group, Penn State Hershey Medical Center Department of Radiology, Hershey, PA
01/2020 – Ongoing

American College of Radiology Artificial Intelligence Medical Student Symposium (AIMS) Co-Founder, Baltimore, MD
07/2019 – Ongoing
Faculty Mentor: Eliot Siegel M.D.

Electronic Medical Records Artificial Intelligence (EMR AI) Architect, Firelands Regional Medical Center, Sandusky, OH
10/2018 – 06/2019

Supervisor: Patrick Tupa D.O. Chief Medical Informatics Officer

Resident Clinical Instructor, Firelands Regional Medical Center, Medical Education Department, Sandusky, OH
03/2018 – 06/2019
Faculty Mentor: James Preston, D.O.

Medical Student Researcher, Stanford University, Department of Radiology, Stanford, CA.
06/2017 – 09/2017
Faculty Mentor: Gabriela Gayer, M.D.

Summer Research Internship, Northwestern University, Department of Orthopaedic Surgery, Chicago, IL.
06/2014 - 08/2014
Faculty Mentor: Wellington K. Hsu, M.D.

Volunteer Researcher, Northwestern University, Department of Orthopaedic Surgery, Chicago, IL.
2/2012 – 08/2013
Faculty Mentor: Wellington K. Hsu, M.D.

Research Technician, Rush University Medical Center, Department of Orthopedic Surgery, Chicago, IL.
08/2009 - 09/2010
Faculty Mentor: Howard S. An, M.D.

Projects

Radiology Education Innovation Grant, Stanford University, Department of Radiology, Stanford, CA.
06/2017 – 06/2022
Faculty Mentor: Peter D. Poullos, M.D.

Stanford Radiology Medical Student Website, Stanford University, Department of Radiology, Stanford, CA.
06/2017 – 12/2017
Faculty Mentors: Michael Federle, M.D., Christopher Beaulieu, M.D., Peter D. Poullos, M.D.

CT Colonography Teaching Files, Stanford University, Department of Radiology, Stanford, CA.
06/2017 – 08/2017
Faculty Mentor: Peter D. Poullos, M.D.

Interactive Education Project, Stanford University, Department of Radiology, Stanford, CA.
06/2017 – 08/2017
Faculty Mentor: Michael Federle, M.D.

Work Experience

Product Manager and Advisor, Microsoft Corporation, Chicago, IL.
09/2010 - 07/2013
Supervisor: Joseph Adams

Help Desk Representative, Medical Center Information Technology, University of Michigan Health Systems, Ann Arbor, MI.
09/2006 – 09/2007
Supervisor: William Copeland

Publications

Chapter Author, "Financial View on AI in Radiology," in *The Impact of Artificial Intelligence in Radiology*, edited by Adam E. M. Eltorai and H. Henry Guo. Taylor & Francis Group, published January 30, 2025 (ISBN: 9781003095279). The chapter explores the financial implications of AI in radiology, including cost-effectiveness, investment returns, and economic considerations.

Park CJ, Yi PH, Al Yousif H, Wang KC: Machine vs. Radiologist-Based Translations of RadLex: Implications for Multi-language Report Interoperability. *Journal of Digital Imaging. Pending Publication*

Spilseth B, McKnight C, Li M, **Park CJ**, Fried J, Yi P, Brian J, Lehman C, Wang X, Phalke V, Pakkal M, Baruah D, Khine P, Fajardo L: Logistics of Academic-Industry Partnerships in Artificial Intelligence Academic Radiology. *Academic Radiology. January 2022.*

Park CJ, Chen W, Pirasteh A, Kim D, Perlman S, Robbins J, McMillan A: Initial Experience with Low-Dose 18F-Flourodeoxyglucose Positron Emission Tomography/Magnetic Resonance Imaging With Deep Learning Enhancement. *Journal of Computer Assisted Tomography. June 2021.*

Gigliotti M, Sweid A, El Naamani K, Patel N, Cockroft K, **Park CJ**, Kanekar S, Church E, Tjoumakaris S, Simon S: Management of Internal Carotid Artery and Intracranial Anterior Circulation Tandem Occlusion with Stenting versus No Stenting: A Multicenter Study. *World Neurosurgery. June 2021.*

Park CJ, Yi PH, Siegel EL: Medical Student Perspectives on the Impact of Artificial Intelligence on the Practice of Medicine. *Current Problems in Diagnostic Radiology. June 2020*.

Park C, Aljabban I, Fanburg-Smith J, Grant C, Moore M: Pediatric Whole-Body MRI Detects Causative Ovarian Teratoma in Opsoclonus Myoclonus Syndrome. *Radiology Case Reports. March 2020.*

Gayer G, **Park C**: Abdominal Wall Masses: CT Findings and Clues to Differential Diagnosis. *Seminars in Ultrasound, CT and MRI. January 2018.*

Yun C, Katchko K, Schallmo M, Jeong S, Yun J, Chen CH, Weiner JA, **Park C**, Stupp S, George A, Hsu WK, Hsu EL: Aryl hydrocarbon receptor antagonists mitigate the effects of dioxin on critical cellular functions in differentiating human osteoblast-like cells. *International Journal of Molecular Sciences. January 2018.*

Yun C, Weiner JA, Chun DS, Yun J, Cook RW, Schallmo MS, Kannan AS, Mitchell SM, Freshman RD, **Park C**, Hsu WK: Mechanistic insight into the effects of Aryl Hydrocarbon Receptor activation on osteogenic differentiation. *Bone Reports. June 2017.*

Mendoza MC, Sonn K, Kannan AS, Bellary SS, Mitchell SM, Singh G, **Park C**, Ghosh A, Yun J, Stock SR, Hsu EL, Hsu WK: The Effect of Vancomycin Powder on Bone Healing in a Rat Spinal Arthrodesis Model. *Journal of Neurosurgery: Spine. April 2016.*

Ghodasra JH, Nickoli MS, Hashmi SZ, Nelson JT, Mendoza M, Nicolas JD, Bellary SS, Sonn K, Ashtekar A, **Park CJ**, Babu J, Yun C, Ghosh A, Stock SR, Hsu WK, Hsu EL: Ovariectomy-induced osteoporosis does not impact fusion rates in an rhBMP-2-dependent rat posterolateral arthrodesis model. *Global Spine Journal. February 2016*.

Hsu E, Sonn K, Kannan A, Bellary S, Yun C, Hashmi S, Nelson J, Mendoza M, Nickoli M, Ghodasra J, **Park C**, Ashtekar A, Ghosh A, Mitchell S, Jain A, Stock S, Hsu W: Dioxin exposure impairs bone healing in a rat spine fusion model. *Journal of Bone and Joint Surgery. June 2015.*

Presentations

Park C, Polanski S, Roberts J, Kessler W: Utilization of a Novel Interative Education Module for MRI Sequence Characterization. Association of University Radiologists 2021, Virtual Meeting.

Park C, Kochar P, Slonimsky E, Kanekar S**:** Inflammatory Lesions of the Spinal Cord. American Roentgen Ray Society 2020, Virtual Meeting.

Park C, Chen W, Kim DH, Perlman SB, Robbins JB, Pirasteh A, McMillan A**:** Ultra-low-dose FDG PET/MR Enterography with Deep-Learning Image Reconstruction. Radiological Society of North America 2020, Virtual Meeting.

Park C, Birkholz J, Gardner J, Moore M, Sarwani N**:** Utilizing a State-of-the-Art Natural Language Processing Model, Bidirectional Encoder Representations from Transformers, for Classification of Abdominal CT Study CPT Codes for the Purpose of Pre-authorization Using Free-Text Referral Orders. Radiological Society of North America 2020, Virtual Meeting.

Park C, Chen W, Kim DH, Perlman SB, Robbins JB, Pirasteh A, McMillan A**:** Ultra-low-dose FDG PET/MR Enterography with Deep-Learning Image Reconstruction. PA-ACP Statewide Resident and Student Poster and Awards Day 2020, Virtual Meeting.

Park C, Chen W, Kim DH, Perlman SB, Robbins JB, Pirasteh A, McMillan A**:** Ultra-low-dose FDG PET/MR Enterography with Deep-Learning Image Reconstruction. Society for Advanced Body Imaging 2020, Virtual Meeting.

Baker E, Miner L, Patel M, Capadarco M, Shin B, **Park C**: Utilizing a Generative Adversarial Network to Produce Realistic Novel Chest Radiographs. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Park C, Hartman H, Fotos J: What are you looking at? Viability and Interpretation of an Artificial Intelligence Algorithm to Determine Sex from a Chest Radiograph. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Dinh M, Poullos P, **Park C**: Multi-institutional Radiology E-Learning Modules and a Flipped Classroom Approach. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Roberts J, Burdette A, **Park C**: Radiologic Diagnosis of Acute Aortic Syndrome: A Novel Approach to Learning using an Interactive Online Module and Zero Footprint PACS. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Park C, Chen W, Kim DH, Perlman SB, Robbins JB, Pirasteh A, McMillan A**:** Ultra-low-dose FDG PET/MR Enterography with Deep-Learning Image Reconstruction. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Vu T, **Park C**, Sarwani N: Hartman H, Fotos J: Utilizing a Novel Natural Language Processing Model (NLP), Bidirectional Encoder Representations from Transformers (BERT), to select appropriate CPT Codes of Abdominal CT studies for the Purpose of Preauthorization using Free-Text Referral Orders. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Polanski S, Jeph S**, Park C**: Utilization of a Novel Interactive Education Module for MRI Sequence Characterization. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Dougherty C, McGillen K, Tancredi T, **Park C**: Out with the Old, in with the new-Novel Methods of learning Ulcerative Colitis imaging via interactive cloud modules. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Park C, Hartman H, Fotos J: What are you looking at? Viability and Interpretation of an Artificial Intelligence Algorithm to Determine Sex from a Chest Radiograph. Annual Meeting of the Pennsylvania Radiological Society Conference 2020, Virtual Meeting.

Baker E, Miner L, Patel M, Capadarco M, Shin B, **Park C**: Utilizing a Generative Adversarial Network to Produce Realistic Novel Chest Radiographs. Conference on Machine Intelligence in Medical Imaging 2020, Virtual Meeting.

Park C, Chen, J, Yi P: A 10 Step Method to Starting and Completing a Machine Learning Project Using Your Own Data. Society for Imaging Informatics in Medicine Annual Meeting 2020, Austin, TX, USA.

Park C, Chen, J, Yi P: Failure of a CNN to Identify Patient Age Based on Chest X-Ray: Lessons and Limitations. Society for Imaging Informatics in Medicine Annual Meeting 2020, Austin, TX, USA.

Park C, Yi P, Wang K: Machine vs. Radiologist-Based Translations of RadLex from German into English: Implications for Multi-Language Report Interoperability. American Roentgen Ray Society Annual Meeting 2020, Chicago, IL, USA.

Park C, Kaur S, Poullos P: How to Train Your Millenial: The Acute Abdomen Small Group On-Call Simulation. Continuing and Expanding on a Successful Pilot Model. Society of Abdominal Radiologists Annual Meeting 2020, Maui, Hawaii, USA.

Park C, Aljabban I, Fanburg-Smith J, Grant C, Moore M: Utilization of Pediatric Whole Body MRI for Opsoclonus Myoclonus Syndrome to Diagnose Causative Ovarian Teratoma. Pennsylvania Radiological Society Annual Meeting 2019, Pittsburgh, PA, USA.

Park C, Siegel E: An Automated Future? Medical Student Perspectives on the Impact of Artificial Intelligence on the Practice of Medicine. American Roentgen Ray Society, May 2019, Honolulu, HI, USA.

Park C, Chen WL, Loh P, Perlman S, Kim D, Robbins J, McMillan A: Ultra Low Dose PET/MRI Imaging of Crohn's Disease Using a Novel Deep Learning Reconstruction Method. Artificial Intelligence Education Exhibit. Radiological Society of North America, November 2018, Chicago, IL, USA.

Park C, Chennareddy S, Hayes K, Shertzer M: Mast Cell Activation Syndrome – A Frequently Misdiagnosed, Multisystem Condition: A Case Report. ACOM Poster Day, October 2016, Dothan, AL, USA.

Park C, Bellary S, Sonn K, Yun C, Nicolas J, Hashmi SZ, Nelson J, Ashtekar A, Mendoza M, Nickoli M, Ghodasra J, Ghosh A, Stock S, Hsu W.K, Hsu E.L: Dioxin exposure causes pseudoarthrosis in a rat spine fusion model. Osteopathic Medical Conference and Exposition, October 2014, Seattle, WA, USA.

Sonn KA, Nelson JT, Hashmi SZ, Lee SS, Ghodasra JH, Nickoli MS, Ashtekar A, **Park C**, Hsu EL, Hsu WK. BMP-2 Direct- and Indirect-Binding Nanogels Designed for Bone Regeneration: A Comparison of Spinal Fusion Capacity. North American Spine Society, October 2013, New Orleans, LA, USA.

Park C, Ashtekar A, Nicolas J, Ghodasra J, Nickoli M, Hashmi S.Z, Nelson J, LaBelle M, Jain A, Hsu W.K, Hsu E.L: Investigation into the role of TCDD in smoking-mediated bone healing inhibition. Orthopaedic Research Society, February 2013, San Antonio, TX, USA.

Hashmi S.Z, Ghodasra J, Nickoli M, **Park C**, Ashtekar A, Nicolas J, LaBelle M, Jain A, Nelson J, Hsu E.L, Hsu W.K: Ovariectomy combined with low calcium diet causes osteoporosis but does not impact spine fusion rate in a rat posterolateral arthrodesis model. Orthopaedic Research Society, February 2013, San Antonio, TX, USA.

Lenart G, Al-Shihabi L, Chee A, **Park C**, Zhang Y, An HS: Local anesthetics are cytotoxic to intervertebral disc cells in cultured rabbit explants. International Society for the Study of the Lumbar Spine, June 2011, Goteburg, Sweden; North American Spine Society, Nov 2011, Chicago, IL, USA.

Press Mentions

Park, Christian. Article by Erik L. Ridley. Are U.S. Medical Students Avoiding Radiology Due to AI? AuntMinnie.com Website.
https://www.auntminnie.com/index.aspx?sec=sup&sub=aic&pag=dis&ItemID=129525

Park, Christian. Interview by Marlene Busko. Choosing a Specialty in the Age of Artificial Intelligence. Medscape Website. https://www.medscape.com/viewarticle/901669_2

Park, Christian. Interview by Williams Baumeister. 4th Year Medical Student Christian Park Receives RSNA Student Research Award. University of Wisconsin – Madison Department of Radiology Website.
https://www.radiology.wisc.edu/news/4th-year-medical-student-christian-park-receives-rsna-student-research-award/