

CURRICULUM VITAE

Paul Gregory Nagy, Ph.D., FSIIM
Director of Quality
Associate Professor
Russell H. Morgan Department of Radiology
Johns Hopkins University

Date November, 1, 2013

Education

1991 B.S. Physics and Scientific Instrumentation
Carnegie Mellon University
2000 PhD Diagnostic Medical Physics
Medical College of Wisconsin

Certifications

2007 Certified Imaging Informatics Professional (CIIP), American Board of Imaging Informatics

Employment History

Academic Appointments

2000-2004 Assistant Professor
Department of Radiology, Section of Digital Imaging, Medical College of Wisconsin
2004-2007 Assistant Professor
Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine
2007-2011 Associate Professor
Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine
2011-Current Associate Professor
Russell H. Morgan Department of Radiology and Radiological Sciences
Johns Hopkins University
2012-Current Associate Professor
Armstrong Institute for Patient Safety and Quality
Johns Hopkins University
2012-Current Associate Professor
Division of Health Science Informatics
Bloomberg School of Public Health
Johns Hopkins University

Other Employment

1995-2000 Senior Physicist
General Electric Medical Systems

Professional Memberships

1993-present American Association of Physicists in Medicine
2001-2008 International Society of Photo-Optical Engineers
2002-present American Medical Informatics Association
2000-present Society of Imaging Informatics in Medicine
2007-present American College of Radiology
2007-present Radiological Society of North America

Honors and Awards

2004 Health Imaging Top 100 Names in Medical Imaging
2007 Medical Imaging Industry Top 10 Informaticist
2008 Society of Imaging Informatics in Medicine Journal of Digital Imaging
Reviewer of the Year
2008 Journal of the American College of Radiology Best Article of 2008 for Practice
Management
2009 Certificate of Merit for "The Quality Academy", Radiology Society of North
America Annual Meeting
2011 Association of University Radiologists (AUR) Management Award
2013 Fellow, College of Society of Imaging Informatics in Medicine

Administrative Service

National Service

2002-2009 InfoRad Review Panel, Radiological Society of North America
2002-2009 University Faculty, Society for Imaging Informatics in Medicine
2002-2007 Education Committee, Society for Imaging Informatics in Medicine
2002-2005 Membership and Marketing Committee, Society for Imaging
Informatics in Medicine
2002-2005 PACS Administration School Co-Chair, Society for Imaging Informatics
in Medicine
2002-2009 Grant and Abstract Reviewer, Society for Imaging Informatics in
Medicine
2003-2012 Refresher Course Faculty, Radiological Society of North America
2003-2009 Reviewer, Radiographics
2003-2009 Reviewer, Journal of Digital Imaging
2003-2008 Chair of Online Communications Committee, Society for Imaging
Informatics in Medicine
2003-2008 Assistant Editor of Expert Hotline, Society for Imaging Informatics in
Medicine
2004-2006 Editorial Board, ADVANCE for Imaging and Oncology Administrators
2004-2009 IHE Technical Committee, Radiological Society of North America
2004-2008 Informatics Classroom Faculty, Radiological Society of North America
2004-2008 Program Committee, Society for Imaging Informatics in Medicine
2005-2007 PACS Certification Committee, Society for Imaging Informatics in
Medicine

2005-2009 DICOM Liaison on Working Group 10, National Electrical and Manufacturing Association

2005-2009 Manuscript Reviewer, Medical Physics

2005-2007 Chair of Test Assembly Committee, Society for Imaging Informatics in Medicine

2005-2008 IHE Connectathon Referee, Radiological Society of North America

2006-2009 Reviewer, Journal of Surgical Innovation

2006-2009 Radiology Lexicon Committee, Radiological Society of North America

2006-2009 Imaging Informatics Subcommittee American Association of Physicists in Medicine

2006-2008 Continuing Education Faculty American Association of Physicists in Medicine

2007-2010 Secretary, American Board of Imaging Informatics

2007 Founding Board of Trustees, American Board of Imaging Informatics

2007-2010 Member, American College of Radiology

2007-2008 Education Center Committee American College of Radiology

2007-2010 Technical Advisory Committee, ACR National Radiology Registry American College of Radiology

2007-2010 Dose Index Registry Committee, ACR National Radiology Registry American College of Radiology

2007-2009 General Radiology Improvement Database Committee (GRID), ACR National Radiology Registry American College of Radiology

2007-2008 Executive Education Faculty, American College of Radiology

2007-2010 IHE Radiology Oversight Planning Committee, Radiological Society of North America

2007-2009 Reviewer, IEEE Transactions of Information Technology in Biomedicine

2007 Guest Editor for Special Supplement, Journal of Digital Imaging

2008-2011 Radiology Informatics Committee (RIC), Radiological Society of North America

2008-2010 Associate Editor of Journal of Digital Imaging

2008-2012 Manuscript Reviewer, American Journal of Roentgenology

2008-2009 Steering Committee on Diagnostic Imaging Efficiency, University Healthcare Consortium

2009-2010 Informatics Subcommittee on Quality and Safety Chair, American College of Radiology

2009-2010 Manuscript Reviewer, BioMed Central Medical Imaging

2010-2012 Transforming the Radiology Interpretation Paradigm, Society for Imaging Informatics in Medicine

2010-2012 Chairman of the Board, American Board of Imaging Informatics

2010-2011 Patient Safety Steering Committee, National Quality Forum

Patents, Inventions & Copyrights

1996 Apparata and methods of analyzing the focal spots of X-ray tubes. U.S. Patent No. 6,233,349

1999 Varying x-ray tube focal spot dimensions to normalize impact temperature. U.S. Patent No. 6,356,619

2011 Techniques for converting analog medical video to digital objects. U.S. Patent No. 7,949,192

Peer-reviewed journal articles

1. Nagy P, Ogden K, Kim CD, Wilson CR, Jacobson D, Palmer D. Correspondence: Spatial and Temporal Responses of Ionization Chambers Health Physics 1995 69(1):137-138
2. Nagy P, Warnock M, Daly M, Rehm J, Ehlers K. Radtracker: A Web-Based Open-Source Issue Tracking Tool J Digit Imaging 2002 15 Suppl 1;:114-119.
3. Gosain AK, Song L, Riordan P, Amarante MT, Nagy PG, Wilson CR, Toth JM, Ricci JL. A 1-year study of osteoinduction in hydroxyapatite-derived biomaterials in an adult sheep model: Part I Plast Reconstr Surg. 2002 109 (2): 619-30.
4. Nagy P, Willis CE. Point/Counterpoint: The application service provider model has no legitimacy in radiology Med Phys 2002 29(4): 638-639.
5. Reiner B, Siegel E, Horii S, Weiss D, Nagy P. The Cutting Edge: Strategies to Enhance Radiologist Workflow in a Filmless/Paperless Imaging Department J Digit Imaging 2002 15(3): 183-185.
6. Nagy P, Daly M, Warnock M, Ehlers K, Rehm J. PACSPULSE: A Web-based DICOM Network Traffic Monitor and Analysis Tool RadioGraphics 2003 23: 795-801.
7. Nagy P, Siegel E, Hanson T, Kriener L, Johnson K, Reiner B. PACS Reading Room Design Seminars in Roentgenology, Vol 2003 38(3): 244-255.
8. Nagy P. Radiology Informatics Encyclopedia of library and information 2003 4 2413-2418
9. Nagy P. Online SCAR expert hotline J Digit Imaging 2004 17(2): 75-77.
10. Gosain AK, Riordan PA, Song L, Amarante MT, Kalantarian B, Nagy PG, Wilson CR, Toth JM, McIntyre BL.. A 1-year study of osteoinduction in hydroxyapatite-derived biomaterials in an adult sheep model: part II. Bioengineering 114(5):1155-63 2004 Plast Reconstr Surg
11. Goodman LR, Gulsun M, Nagy P, Washington L. CT of deep venous thrombosis and pulmonary embolus: does iso-osmolar contrast agent improve vascular opacification? Radiology 2005 Mar;234(3):923-8
12. Gosain AK, Riordan PA, Song L, Amarante MT, Kalantarian B, Nagy PG, Wilson CR, Toth JM, McIntyre BL.. A 1-year study of hydroxyapatite-derived biomaterials in an adult sheep model: III. Comparison with autogenous bone graft for facial augmentation Plast Reconstr Surg 2005 116(4):1044-52
13. Erickson B, Langer S, Nagy P. The Role of Open-Source Software in Innovation and Standardization in Radiology J Am Coll Radiol 2005 2(11):927-931

14. Nagy P, Bowers G, Reiner B, Siegel E. Defining the PACS Profession: An Initial Survey of Skills, Training, and Capabilities for PACS Administrators J Digit Imaging 2005 18(4):252-259
15. Goodman L, Gulsun M, Washington L, Nagy P, Piacsek K. Inherent Variability of CT Lung Nodule Measurements In Vivo Using Semiautomated Volumetric Measurements Am J Roentgenol 2006 186: 989-994
16. Nagy P, George I, Bernstein W, Caban J, Klein R, Mezrich R, Park A. Radio frequency identification systems technology in the surgical setting Surg Innov 2006 13(1):61-7
17. Nagy P, Kahn C, Boonn W, Siddiqui K, Meenan C, Knight N, Safdar N. Building Virtual Communities of Practice in Medical Imaging J Am Coll Radiol 2006 3 (9):716-720
18. Meenan C, Daly B, Toland C, Nagy P. Use of a Thin-Section Archive and Enterprise 3D Software for Long-Term Storage of Thin-Slice CT Datasets J Digit Imaging 2006 Volume 19, Supplement 1; 84-88
19. Toland C, Meenan C, Toland M, Safdar N, Vandermeer P, Nagy P. A Suggested Classification Guide for PACS Client Applications: The Five Degrees of Thickness J Digit Imaging 2006 Volume 19, Supplement 1; 78-83
20. Hendee W, Gazelle S, Andriole K, Bourland D, Carson P, Dickinson M, Ferrara K, Frank J, Jaffray D, Josephson L, Kahn C, Lictor A, Nagy P, Pichler B, Siegel E. Biomedical Imaging Research Opportunities Workshop III: A White Paper Annals of Biomedical Engineering 2006 Vol. 34, No. 2; pp. 188-198
21. Kahn C, Santos A, Rock J, Nagy P, Ehlers K. A Presentation System for Just-in-Time Learning J Digit Imaging 2007 20(1):6-16
22. Nagy P. The Future of PACS Med Phys 2007 Volume 34, Issue 7; 2676-2682
23. Mezrich R, Nagy P. The Academic RVU: A System for Measuring Academic Productivity J Am Coll Radiol 2007 Vol 4 Issue 7; 471-478
24. Warnock M, Nagy P. Benefits of using the DCM4CHE DICOM archive J Digit Imaging 2007 Volume 20 Supplement 1; 125-129
25. Toland C, Meenan C, Nagy P. Proactively Monitoring Departmental Clinical IT Systems with an Open Source Availability System J Digit Imaging 2007 Volume 20 Supplement 1; 119-124
26. Potter G, Toland M, Nagy P. Mastering DICOM with DVTK J Digit Imaging 2007 Volume 20 Supplement 1: pp 47-62
27. Caban J, Nagy P. Rapid Development of Medical Imaging Tools with Open Source Libraries J Digit Imaging 2007 Volume 20 Supplement 1; 83-93
28. Nagy P. Open Source in Imaging Informatics. J Digit Imaging 2007 Volume 20 Supplement 1; 1-10
29. Kagadis G, Nagy P, Langer S, Flynn M, Starkschall G. Roles of medical physicists and health care applications of informatics Med Phys 2008 Volume 35, Issue 1, pp. 119-127
30. Nagy P, Pierce B, Otto M, Safdar N. Quality Control Management and Communication Between Radiologists and Technologists J Am Coll Radiol 2008 5:759-765

31. Nagy P, Konewko R, Warnock M, Bernstein W, Seagull J, Xiao Y, George I, Park A. Novel Web-Based Information-Exploration Approach for Improving Operating Room Logistics and System Processes Surg Innov 2008 15: 7-16
32. Chen J, Lakhani P, Safdar N, Nagy P. Letter to the Editor Re: Voice Recognition Dictation: Radiologist as Transcriptionist and Improvement of Report Workflow and Productivity Using Speech Recognition—A Follow-up Study J Digit Imaging 2009 22(6):560-561
33. Channin D, Bowers G, Nagy P. Should Radiology IT be Owned by the Chief Information Officer? J Digit Imaging 2009 Vol 22, Num 3 ; pp 218-220
34. Nagy P, Warnock M, Daly M, Toland C, Meenan C, Mezrich R. Informatics in Radiology: Automated Web-based Graphical Dashboard for Radiology Operational Business Intelligence RadioGraphics 2009 29;1897-1906
35. Safdar NM, Siddiqui KM, Qureshi F, Mirza MK, Knight N, Nagy P, Siegel E. Vision and quality in the digital imaging environment: how much does the visual acuity of radiologists vary at an intermediate distance? Am J Roentgenol 2009 192(6):W335-40
36. Raymond M, Nagy P. Developing and Verifying the Psychometric Integrity of the Certification Examination for Imaging Informatics Professionals. J Digit Imaging 2010 23(3): 241-245
37. Meenan C, King A, Toland C, Daly M, Nagy P. Use of a Wiki as a Radiology Departmental Knowledge Management System J Digit Imaging 2010 23(2): 142-151
38. Shih G, Lakhani P, Nagy P. Is Android or iPhone the Platform for Innovation in Imaging Informatics J Digit Imaging 2010 Vol 23 (1); pp 2-7
39. Nagy P. An Introduction to Quality Matters J Am Coll Radiol 2010 Feb 7 (2) : 146-147
40. Logie C, Smith S, Nagy P. Evaluation of Resident Familiarity and Utilization of the ACR Musculoskeletal Study Appropriateness Criteria in the Context of Medical Decision Support Acad Radiol 2010 17(2); pp 251-254
41. Nagy P. A Suggested Bookshelf for Quality Improvement in Radiology J Am Coll Radiol 2010 Apr 7 (4) : 299-300
42. Nagy P, Safdar N. Online Radiology Quality Resources J Am Coll of Radiol 2010 7(6); 459-460
43. Seagull J, Nagy P. Don't ignore the process to quality improvement J Am Coll of Radiol 2010 7(8); 644-645
44. Meyer J, Nagy P. Building a community of practice for quality J Am Coll Radiol 2010 7(10); pp 808-809
45. Trimble C, Socia C, Bluth E, Nagy P. Importance of Certified and Qualified Personnel for Managing PACS Radiol Management 2010 Nov pp10-13
46. Safdar N, Nagy P. Incorporating Professionalism in Patient Safety Programs: An Introduction for Radiologists J Am Coll Radiol 2010 7(12); pp 983-985
47. Chen M, Safdar N, Nagy P. Should Medical Schools Incorporate Formal Training in Informatics? J Digit Imaging 2011 24(1); pp 1-5
48. Chen J, Bradshaw J, Nagy P. Has the Picture Archiving and Communication System (PACS) Become a Commodity? J Digit Imaging 2011 24(1); pp 6-11

49. Chen J, Seagull J, Nagy P, Lakhani P, Melhem E, Siegel E, Safdar N. Computer Input Devices: Neutral Party or Source of Significant Error in Manual Lesion Segmentation? J Digit Imaging 2011 24(1); 135-141
50. Philbin J, Prior F, Nagy P. Will the next generation of PACS be sitting on a cloud? J Digit Imaging 2011 DOI: 10.1007/s10278-010-9331-4
51. Awan O, Wagenberg F, Daly M, Safdar N, Nagy P. Tracking Delays in Report Availability Caused by Incorrect Exam Status with Web-Based Issue Tracking: A Quality Initiative J Digit Imaging 2011 24(2); pp 300-307
52. Nagy P, Vandermeer F, Olmsted W. Tips for Incorporating Quality Improvement Projects into a Residency Program Curriculum. J Am Radiol 2011 8(2); pp 84-85
53. Itri J, Olmsted W, Nagy P. A Resident Journal Club for Quality Improvement. J Am Coll Radiol 2011 8(4); pp 225-227
54. Wang K, Filice R, Philbin J, Siegel E, Nagy P. Five levels of PACS Modularity: Integrating 3D and other Advanced Visualization Tools. J Digit Imaging 2011 Online First: DOI: DOI: 10.1007/s10278-011-9366-1
55. Mezrich R, Juluru K, Nagy P. Should Post Processing be Performed by the Radiologist? J Digit Imaging 2011 24(3); pp 378-81
56. Flug J, Nagy P. The Lean Concept of Waste in Radiology. J Am Coll Radiol 2011 8(6); pp 443-446
57. Moeslein F, Nagy P. Performance Quality Improvement Projects: Suggestions for Interventional Radiologists. J Am Coll Radiol 2011 8(8); pp 585-587
58. Safdar N, Siegel E, Erickson BJ, Nagy P. Enabling comparative effectiveness research with informatics. Acad Radiol 2011 18(9): 1072-6
59. Prasanna P, Nagy P. Learning from High Reliability Organizations. J Am Coll Radiol 2011 8(10); pp 725-726
60. Prasanna P, Seagull J, Nagy P. Online Social Networking: A Primer for Radiology. J Digit Imaging 2011 24:908-912
61. Safdar N, Rubio E, Nagy P. Performance Quality Improvement Projects: Suggestions for Radiologists Who Image Children. J Am Coll Radiol 2011 8(12); pp 875-877
62. Ikusika O, Joseph L, Nagy P. The Safety Attitudes Questionnaire in Radiology: A Cornerstone of a Successful Quality Program. J Am Coll Radiol 2012 9(2):150-151
63. Lipton P, Sevinc G, Nagy P. Leveraging Internet Technologies with DICOM WADO. J Digit Imaging 2012 DOI 10.1007/s10278-012-9469-3
64. Miller C, Pronovost P, Nagy P. Five Roles for Quality Leadership in Radiology. J Am Coll Radiol 2012 9(4); pp 282-283
65. Lee CS, Lewin JS, Nagy P. Events That Have Shaped the Quality Movement in Radiology. J Am Coll Radiol 2012 9(6); pp 437-439
66. Kho D, Bluth E, Meenan C, Nagy P. Certification of Imaging Informatics Professionals (CIIP): 2010 Survey of Diplomates. J Digit Imaging 2012: DOI 10.1007/s10278-012-9486-2
67. Lee C, Paine L, Nagy P. Functions of the Quality Committee in Radiology. J Am Coll Radiol 2012 9(8); pp 566-568

68. Savoie B, Nagy P. PACS and the Potential for Medical Errors. *J Am Coll Radiol* 2012 9(10); pp 756-758
69. Babiarz LS, Trotter S, Viertel VG, Nagy P, Lewin JS, Yousem DM. Neuroradiology: Survey of Neuroradiology Training Programs. *Am J Neuro* 2012 33(9); 10.3174/ajnr.A3300
70. Fotenos A, Safdar N, Nagy P, Mezrich R, Lewin J. Unbiased Review of Digital Diagnostic Images in Practice : Informatics Prototype and Pilot Study. *Acad Radiol*.
71. Fotenos A, Nagy P. What Are Your Goals for Peer Review? A Framework for Understanding Differing Methods. *J Am Coll Radiol* 2012 9(12); pp 929-930
72. Trotter SA, Babiarz LS, Viertel VG, Nagy P, Lewin JS, Yousem DM. Determination and Communication of Critical Findings in Neuroradiology. *J Am Coll Radiol* 2013 10(1); pp 45-50
73. Babcock B, Nagy P. The IIP Examination: an Analysis of Group Performance 2009-2011. *J Digit Imaging* 2013 26(3): 378-382
74. Kagadis GC, Walz-Flannigan A, Krupinski EA, Nagy P, Katsanos K, Diamantopoulos A, Langer S. Medical Imaging Displays and Their Use in Image Interpretation. *RadioGraphics* 2013 33:275-290
75. Savoie B, Lexa F, Nagy P. Radiologist Technologist communication. *J Am Coll Radiol* 2013 10(2); pp 144-145
76. CM Hawkins, P Nagy. Quality Improvement Projects for Residents. *J Am Coll Radiol* 2013 10(4); pp 301-302
77. Nance J, Meenan C, Nagy P. The Future of the Radiology Information System. *AJR* 2013 200; pp 1064-1070
78. Grande FD, Carrino A, Nagy P. Performance Quality Improvement Projects in Musculoskeletal Radiology. *J Am Coll Radiol* 2013 10(6); pp 475-476
79. Kagadis G, Kloukinas C, Moore K, Philbin J, Papadimitroulas P, ALEXAKOS, Nagy P, Visvikis D, Hendee W. Cloud computing in medical imaging. *Med Phys* 40(7) July 2013
80. Knechtges P, Bell C, Nagy P. Utilizing the 5S Methodology for Radiology Workstation Design: Applying Lean Process Improvement Methods. *J Am Coll Radiol* 2013 10(8); pp 633-634
81. CS Lee, PG Nagy, SJ Weaver, DE Newman-Toker. Cognitive and System Factors Contributing to Diagnostic Errors in Radiology. *American Journal of Roentgenology* 2013 (3), 611-617
82. Hawkins M, Nagy P. The Effective Quality Officer: The Role of Trust, Boundaries, and Relationships. *J Am Coll Radiol* 2013 10(8); pp 802-804
83. McClam-Liebengood S, Cooper M, Nagy P. Going to Gemba: Identifying Opportunities for Improvement in Radiology. *J Am Coll Radiol* 2013 10(10);
84. Torok C, Lee C, Nagy P, Yousem D, Lewin JS. Neuroradiology Second Opinion Consultation Service: Assessment of Duplicative Imaging. *American Journal of Roentgenology* 2013 (5), 1096-1100