



CURRICULUM VITAE

William R Geiser

PRESENT TITLE AND AFFILIATION

Primary Appointment

Senior Medical Physicist, Department of Imaging Physics, Division of Diagnostic Imaging, The University of Texas MD Anderson Cancer Center, Houston, TX

Associate Faculty, Graduate School of Biomedical Sciences, Houston, TX

Dual/Joint/Adjunct Appointment

N/A

CITIZENSHIP

United States

OFFICE ADDRESS

The University of Texas MD Anderson Cancer Center

1515 Holcombe Blvd., Dept. of Imaging Physics

Unit 1352

Unit Number: 1352

Houston, TX 77030

Room [REDACTED]

Phone: [REDACTED]

Fax: [REDACTED]

EDUCATION

Degree-Granting Education

Southern Oregon State College, Ashland, OR, BS, [REDACTED] Physics

University of Florida, Gainesville, FL, MS, [REDACTED], Medical Physics

Postgraduate Training

N/A

CREDENTIALS

Board Certification

American Board of Radiology, 5/2000

Licensures

Active

N/A

Inactive

Texas Board of Licensure for Professional Medical Physicists, TX, [REDACTED]
9/2001–7/2011

EXPERIENCE/SERVICE

Academic Appointments

Senior Medical Physicist, Department of Imaging Physics, Division of Diagnostic Imaging, The University of Texas MD Anderson Cancer Center, Houston, TX, 12/2001–present

Associate Faculty, Graduate School of Biomedical Sciences, Houston, TX, 1/2002–present

Administrative Appointments/Responsibilities

N/A

Other Appointments/Responsibilities

Electrician's Mate First Class, Navy Nuclear Power Program, Houston, TX, 1/1981–1/1987

Diagnostic Radiological Physicist Graduate Assistant, Shands Hospital at the University of Florida, Gainesville, FL, 8/1993–9/1996

Diagnostic Radiological Physicist, Environmental Health & Safety, University of Florida, Gainesville, FL, 9/1996–12/2001

Endowed Positions

N/A

Consultantships

N/A

Military or Other Governmental Service

Navy, Electrician's Mate First Class, Navy Nuclear Power Program, 8/1981–8/1987

Institutional Committee Activities

N/A

HONORS AND AWARDS

N/A

RESEARCH

Grants and Contracts

Funded

N/A

Pending

N/A

Other

N/A

Completed

N/A

Not Funded

N/A

Protocols

Funded

N/A

Unfunded

N/A

Patents and Technology Licenses

Patents

N/A

Technology Licenses

N/A

Grant Reviewer/Service on Study Sections

N/A

PUBLICATIONS

Peer-Reviewed Original Research Articles

1. Rill LN, Huda W, Geiser WR, Gkanatsios NA. Viewbox luminance measurements and their effect on reader performance. *Radiology* 201:820-820, 11/1996.
2. Geiser WR, Huda W, Gkanatsios NA. Effect of patient support pads on image quality and dose in fluoroscopy. *Med Phys* 24(3)(3):377-82, 3/1997.
3. Huda W, Steinbach BG, Geiser WR, Belden CJ. Optimal technique factors for magnification mammography. *Invest Radiol* 32(7):378-81, 7/1997.
4. Rong XJ, Krugh KT, Shepard SJ, Geiser WR. Measurement of focal spot size with slit camera using computed radiography and flat-panel based digital detectors. *Med Phys* 30(7)(7):1768-75, 7/2003.
5. Lai, C.J., Shaw, C., Geiser, W., Kappadath, SC., Liu, X., Wang, T., Tu, S. and Altunbas, M. Slot Scanning Versus Ani-Scatter Grid on Digital Mammography- Comparison of Low Contrast Performance Using Contrast-Detail Measurement. *SPIE Physics of Medical Imaging* 5368:734-742, 2004.
6. Lai CJ, Shaw CC, Geiser W, Chen L, Arribas E, Stephens T, Davis PL, Ayyar GP, Dogan BE, Nguyen VA, Whitman GJ, Yang WT. Comparison of Slot Scanning Digital Mammography System with Full Field Digital Mammography System. *Med Phys* 35(6):2339 - 2346, 6/2008.
7. Haygood T, Geiser W, Arribas E, Whitman G. Conspicuity of Microcalcifications on Digital Screening Mammograms Using Varying Degrees of Monitor Zooming. *Academic Radiology* 16(12):1509-1517, 12/2009.
8. Tchou PM, Haygood TM, Atkinson EN, Stephens TW, Davis PL, Arribas EM, Geiser WR, Whitman GJ. Interpretation time of computer-aided detection at screening mammography. *Radiology* 257(1):40-6, 10/2010. e-Pub 8/2010.
9. Geiser WR, Haygood TM, Santiago L, Stephens T, Thames D, Whitman GJ. Challenges in Mammography: Part 1 Artifacts in Digital Mammography. *AJR Am J Roentgenol* 197(12):W1023 - W1030, 12/2011.

10. Liu X, Lai CJ, Whitman GJ, Geiser WR, Shen Y, Yi Y, Shaw CC. Effects of exposure equalization on image signal-to-noise ratios in digital mammography: A simulation study with an anthropomorphic breast phantom. *Med Phys* 38(12):6489, 12/2011. PMID: PMC3247925.
11. Kanal KM, Krupinski E, Berns EA, Geiser WR, Karellas A, Mainiero MB, Martin MC, Patel SB, Rubin DL, Shepard JD, Siegel EL, Wolfman JA, Mian TA, Mahoney MC, Wyatt M. ACR-AAPM-SIIM Practice Guideline for Determinants of Image Quality in Digital Mammography. *J Digit Imaging*. e-Pub 9/2012.
12. Leong DL, Rainford L, Haygood TM, Whitman GJ, Tchou PM, Geiser WR, Carkaci S, Brennan PC. Verification of DICOM GSDF in Complex Backgrounds. *J Digit Imaging* 25(5):662-9, 10/2012. e-Pub 4/2012.

Invited Articles

N/A

Editorials

N/A

Other Articles

N/A

Abstracts

1. Rong J, Krugh K, Shepard S, Geiser WR. Measurement of Focal Spot Size with Slit Camera Using Computed Radiography and Flat Panel Based Digital Detectors. The 44th Annual AAPM Meeting, Montreal Canada, 2002.
2. Lai C, Shaw C, Geiser WR, Liu X, Kappadath S, Altunbas M, Tu S, Wang T, Whitman G, Dempsey P. A Contrast-Detail Phantom Study to Compare a Slot Scanning Digital System with An Asi/CsI Flat Panel Based System. The 46th Annual AAPM Meeting, Pittsburgh, PA, 2004.
3. Lai C, Shaw C, Whitman G, Arribas E, Nguyen V, Stephens T, Geiser WR, Dempsey P. Comparison of AsI/CsI Flat Panel and Slot Scanning Digital Mammography Systems for Detection of Simulated Microcalcifications: An ROC Study. The 46th Annual AAPM Meeting, Pittsburgh, PA, 2004.
4. Liu H, Geiser WR, Willis C. Effects of Prepatient Filtration on Contrast, Scatter and Dose in CR Chest Exams: A Phantom Study. The 47th Annual AAPM Meeting, Seattle WA, 2005.
5. Ayyer GP, Whitman G, Geiser WR, Sprinkle-Vincent S, Sullivan C, Stephens TW. Film-Screen and Digital Mammography Artifacts. American Roentgen Ray Society Annual Meeting, New Orleans, LA, 2005.
6. Shaw, C., Geiser, W. Mammography QA Workshop I & II. 48th Annual AAPM Meeting, 2006.
7. Santiago L, Haygood TM, Whitman GJ, Atkinson EN, Geiser WR. Technical Recall in Film Screen and Digital Screening Mammography. RSNA, 11/2007.
8. Lai C, You Z, Zhong Y, Shen Y, Chen L, Liu X, Han T, Ge S, Yi Y, Geiser W, Whitman G, Yang W, Shaw C. Effects of Exposure Level and Anatomical Background On Detection of Simulated Microcalcifications in Digital Mammography. 51st Annual AAPM Meeting, 6/2009.

Book Chapters

N/A

Books (edited and written)

N/A

Letters to the Editor

N/A

Manuals, Teaching Aids, Other Teaching Publications

1. Geiser W, Haygood T, Santiago L, Stephens T, Whitman W, Thames D. Artifacts in Digital Mammography: What the Radiologist Needs to Know. AJR: USA, 4/2009.

Other Publications

N/A

EDITORIAL AND REVIEW ACTIVITIES

Editor/Service on Editorial Board(s)

N/A

Member of Editorial Review Board

N/A

Journal Reviewer

Reviewer, Journal of Applied Clinical Medical Physics, American College of Medical Physics, Reviewer for articles related to breast imaging., 2010–present

Reviewer, Medical Physics, Review Manuscripts when requested by the editor or associate editors of Medical Physics, 2012–present

Other Editorial and Review Activities

N/A

TEACHING

Teaching Within Current Institution - The University of Texas MD Anderson Cancer Center

Formal Teaching

Courses Taught

Lecturer, Medical Physics II, Course Number: GS02-0103, Course Hours: 3
Spring, 1/2012–present

Training Programs

N/A

Other Formal Teaching

Instructor, Introductory Diagnostic Imaging Rotation, Course Number: GS02-0174, Course Hours: 3
8/2002–present

Supervisory Teaching

Committees

Advisory Committees

N/A

Supervisory Committees

N/A

Examining Committees

N/A

Direct Supervision

Undergraduate and Allied Health Students

N/A

Medical Students

N/A

Graduate Students

N/A

Postdoctoral Research Fellows

N/A

Clinical Residents and Fellows

N/A

Other Supervisory Teaching

N/A

Teaching Outside of Current Institution

Formal Teaching

Courses Taught

Radiation Control and Radiological Services Radiation Safety Short Course,
University of Florida
Quarterly, 1/1997–1/2001

Training Programs

N/A

Other Formal Teaching

N/A

Supervisory Teaching

Committees

Advisory Committees

N/A

Supervisory Committees

N/A

Examining Committees

N/A

Direct Supervision

Undergraduate and Allied Health Students

N/A

Medical Students

N/A

Graduate Students

N/A

Postdoctoral Research Fellows

N/A

Clinical Residents and Fellows

N/A

Other Supervisory Teaching

N/A

CONFERENCES AND SYMPOSIA

Organization of Conferences/Symposia (Include chairing session)

ACMP, Virginia Beach, VA, Chair, 4/2009

ACMP, San Antonio, TX, Chair, 5/2010

ACMP, Chattanooga, TN, Chair, 4/2011

AAPM, Dallas, TX, Chair, 3/2012

AAPM, Phoenix, AZ, Chair, 3/2013

Presentations at National or International Conferences

Invited

Geiser WR. Annual QC Testing of the Hologic/LORAD Full Field Digital Mammography System (TH-D-230C-01, TH-D-230C-02), 48th Annual AAPM Meeting, Orlando, FL, 7/31/2006

Geiser WR. Annual and Acceptance Testing of Digital Mammography Equipment, ACMP 2008, Seattle, WA, 5/3/2008

Geiser WR. Digital Mammography: The Impact on PACS, Workflow, and Equipment Purchase Considerations, SIIM 2008, Seattle, WA, 5/17/2008

Geiser W, Haygood T, Santiago L, Stephens T, Whitman G, Thames D. Artifacts in Digital Mammography, ACMP, Virginia Beach, VA, 5/2/2009

Geiser, WR. Digital Detectors in Digital Mammography, Health Promotion Board, Singapore, Singapore, Singapore, 4/17/2010

Geiser, WR. Quality Control for the Technologist in Digital Mammography, Health Promotion Board, Singapore, Singapore, Singapore, 4/17/2010

Geiser, WR. Conversion from Film Screen Mammography to Digital Mammography, ACMP, San Antonio, TX, 5/22/2010

Geiser WR. Breast Specimen Radiography, ACMP, Chattanooga, TN, 4/30/2011

Geiser WR. The Breast Imaging Center of Excellence, AAPM, Dallas, TX, 3/18/2012

Other, Including Scientific Exhibitions

Image Quality and Patient Doses in Pediatric Fluoroscopy (WE-D1-08-D), Annual AAPM Meeting, Boston, MA, 1/1/1995

Geiser, WR, Haygood, T, Whitman, G. Artifacts in Digital Mammography, Health Promotion Board, Singapore, Singapore, Singapore, 4/17/2010

Geiser, WR. Breast Tomosynthesis from the Ground Up, AAPM, Phoenix, AZ, 3/17/2013

Geiser, WR. The ACR Random On Site Survey Program, AAPM, Phoenix, AZ, 3/19/2013

Seminar Invitations from Other Institutions

N/A

Lectureships and Visiting Professorships

N/A

Other Presentations at State and Local Conferences

Everything You wanted to Know about Digital Mammography but were Afraid to Ask, FastCE State Mammography, Humble, TX, 5/2005

ACR Accreditation of Stereostactic Breast Biopsy Units, FastCE State Mammography Seminar, Humble, TX, 5/2006

Geiser W, Haygood T, Santiago L, Stephens T, Whitman G, Thames D. Artifacts in Digital Mammography, Artifacts In Digital Mammography: What thePhysicist Needs to Know, Southwest Chapter of the AAPM, San Antonio, TX, 3/27/2009

PROFESSIONAL MEMBERSHIPS/ACTIVITIES

Professional Society Activities, with Offices Held

National and International

American Association of Physicists in Medicine, Houston, TX
Member, 1/1996–present
Member Task Group 150, 7/2007–present
Member Task Group 171, 7/2008–present
Chairman Task Group 209, 9/2010–present

American College of Radiology
Member, 1/2006–present

Society of Breast Imaging
Member, 12/2006–present

American College of Medical Physics, College Park, MD
Member, 9/2009–present

Local/State

Southwest Chapter of the American Association of Physicists in Medicine, Houston, TX
Member, 1/2002–present

UNIQUE ACTIVITIES

N/A

DATE OF LAST CV UPDATE

3/6/2013