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ACADEMIC APPOINTMENTS

2002 - 2007 Post-Doctoral Scholar, Department of Radiology, University of Chicago
2007 - 2014 Research Associate (Assistant Professor), Department of Radiology, University of Chicago
2014 - present Assistant Professor of Radiology, University of Chicago

ACADEMIC TRAINING

1989-1995 M.S. (Diplom), Physics, University of Kaiserslautern, Kaiserslautern, Germany
1997-2002 Ph.D., Physics, Kansas State University, Manhattan, KS
2012 Medical Physics initial certification exam I of the American Board of Radiology

EMPLOYMENT

1994 Visiting Researcher, Niels-Bohr-Institute, Copenhagen
12/1993-12/1994 Student Research Assistant, University of Paris-Sud XII
1/1995-4/1995 Student Research Assistant, Laboratoire de la Dynamique Moléculaire, University of Paris VI
9/1995-2/1996 Internship, Department of Nuclear Decommissioning/Waste Management, ABB Reaktor GmbH, Mannheim, Germany;
3/1996-6/1996 Research Assistant, University of Paris-Sud XII
2/1997-2/2002 Research Assistant, Department of Physics, Kansas State University
1999-2000 Freelance Writing "Lexikon der Physik", Spektrum Akademischer Verlag, Heidelberg (Germany)

Peer-reviewed publications:

1. J. W. Thomsen, I. Reiser, N. Andersen, J. C. Houver, J. Salgado, E. Sidky, A. Svensson and D. Dowek, "An Experimental Determination of the Complete Transition Matrix for the Electron Transfer Process $\text{Li}^+ + \text{Na}(3s) \rightarrow \text{Li}(2P) + \text{Na}^+$ ", *Journal of Physics B* 29, 5459-5474 (1996).
2. D. Dowek, J. C. Houver, I. Reiser, J. Salgado, A. Svensson, J. W. Thomsen, N. Andersen, S. E. Nielsen, and A. Dubois, "Left-right scattering asymmetries for electron transfer from oriented and tilted aligned $\text{Na}(3p)$ states to $\text{H}(n=2,3)$ ", *Phys. Rev. A* 54, 970-973 (1996).
3. J. Salgado, J. W. Thomsen, N. Andersen, D. Dowek, A. Dubois, J. C. Houver, S. E. Nielsen, I. Reiser and A. Svensson, "State propensities in electron transfer processes from optically prepared states: $\text{H}^+ + \text{Na}(3s, 3p) \rightarrow \text{H}(n=2,3) + \text{Na}^+$ ", *Journal of Physics B* 30, 3059 - 3075 (1997).
4. C. Courbin, M. Machholm, I. Reiser, D. Dowek and J. C. Houver, "Polarization of $\text{Li}(2p)$ produced by $\text{Li}^+ - \text{Na}(3s)$ collisions", *Journal of Physics B* 31, 2305-2319 (1998).
5. M. P. Stockli, K. Carnes, C. L. Cocke, B. D. DePaola, T. Ehrenreich, C. Fehrenbach, D. Fry, P. E. Gibson, S. Kelly, U. Lehnert, V. Needham, I. Reiser, P. Richard, T. N. Tipping, B. Walch, A. Cuquemelle, C. Doudna, B. Eastman, U. Kentsch and R. Schedler, N. Kobayashi and J. Matsumoto, S. Madzunkov, "New improvements on the Kansas State University cryogenic electron beam ion source, a user facility for low energy, highly charged ions", *Review of Scientific Instruments* 71(2), 902 - 905 (2000).

6. C. Y. Chen, C. L. Cocke, J. P. Giese, F. Melchert, I. Reiser, M. Stockli, E. Y. Sidky and C. D. Lin, "Studies of Charge Exchange in Symmetric Ion-Ion Collisions" , Journal of Physics B 34, 469 - 475 (2001).
7. H. Braeuning, I. Reiser, A. Diehl, A. Theiss, E. Sidky, M. Stoekli, C. L. Cocke and E. Salzborn, "Charge transfer in collisions of H₂⁺ ions with He₂⁺ and Ar₂⁺" Journal of Physics B 34, L321-L325
8. D. Doweck, I. Reiser, S. Grego, N. Andersen, A. Dubois, J. C. Houver, S. E. Nielsen, C. Richter, J. Salgado, A. Svensson and J. W. Thomsen, "P-state-to-P-state transitions in optically prepared atomic collisions: III. A complete analysis of Li⁺ + Na(3p) -> Li(2p) + Na⁺ differential scattering", Journal of Physics B 35, 2051-2068 (May 2002)
9. C. D. Lin and I. Reiser, "Alignment-Dependent Atomic Model for Electron Transfer in Ion-Molecule Collisions", International Journal of Molecular Sciences 3,132-141 (2002)
10. I. Reiser and C. L. Cocke, "Alignment measurements in collisions of D₂⁺ with doubly charged projectiles", Nuclear Instr. and Methods B 205,614-619 (2003)
11. I. Reiser, C. L. Cocke and H. Braeuning, "Alignment effects in electron capture from D₂⁺ molecular ions by Ar₂⁺, N₂⁺ and He₂⁺", Physical Review A 67, 062718 (2003)
12. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. Rafferty, R. Moore, D. B. Kopans, "Computerized detection of mass lesions in digital breast tomosynthesis images using two-and three dimensional radial gradient index segmentation", Technology in Cancer Research and Treatment 3, 437-441 (2004)
13. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "Computerized Mass Detection for Digital Breast Tomosynthesis Directly from the Projection Images", Medical Physics 33(2), 482-491 (2006)
14. I. Reiser and R. M Nishikawa, "Identification of Simulated Microcalcifications in White Noise and Mammographic Backgrounds", Medical Physics 33, 2905-2911 (2006)
15. I. Reiser, R. M Nishikawa, A. V. Edwards, R. A. Schmidt, J. Papaioannou, R. Moore and D. B. Kopans, "Automated detection of microcalcification clusters for digital breast tomosynthesis using projection data only: A preliminary study", Medical Physics 35, 1486-1493 (2008).
16. E. E. Engstrom, I. Reiser, R. M Nishikawa, "Comparison of power spectra in tomosynthesis reconstruction and projection images", Medical Physics 36, 1753-1758 (2009).
17. E. Y. Sidky, X.-C. Pan, I. Reiser, R. M. Nishikawa, R. H. Moore, and D. B. Kopans, "Enhanced imaging of microcalcifications in digital breast through improved reconstruction algorithms", Medical Physics 36, 4920 (2009).
18. I. Reiser and R. M. Nishikawa, "Task-based assessment of tomosynthesis: Effect of acquisition parameters and quantum noise", Medical Physics 37, 1591-1600 (2010).
19. I. Reiser, S. Lee and R. M. Nishikawa, "On the orientation of mammographic structure", Medical Physics 38, 5303-5307 (2011).
20. I. Reiser, R. M. Nishikawa, M. L. Giger, J. M. Boone, K. K. Lindfors, K. Yang, "Automated detection of mass lesions in dedicated breast CT: A preliminary study", Medical Physics 39, 866-873 (2012).
21. B. A. Lau, I. Reiser, R. M. Nishikawa, and P. R. Bakic, "A statistically defined anthropomorphic software breast phantom", Medical Physics 39, 3375-3386 (2012).
22. A. A. Sanchez, E. Y. Sidky, I. Reiser, and X.-C. Pan, "Comparison of Human and Hotelling Observer Performance for a Fan-beam CT Signal Detection Task", Medical Physics 40, 031104 (2013) (9 pages).
23. I. Reiser, A. Edwards and R. Nishikawa, "Validation of a power-law noise model for simulation of small-scale breast tissue", Phys. Med. Biol. 58, 6011-6027 (2013).
24. H.-C. Kuo, M. L. Giger, I. Reiser, J. Boone, K. K. Lindfors, K. Yang, A. Edwards, "Level set segmentation of breast masses in contrast-enhanced dedicated breast CT and evaluation of stopping criteria", J. Digit. Imaging, epub Oct 26 (2013)
25. H.-C. Kuo, M. L. Giger, I. Reiser, K. Drukker, J. M. Boone, K. K. Lindfors, K. Yang, A. Edwards, C. A. Sennett, "Segmentation of Breast Masses on Dedicated Breast CT and 3D Breast Ultrasound Images", Journal of Medical Imaging, in press
26. I. Reiser and I. Sechopoulos, "A review of digital breast tomosynthesis", Medical Physics International Journal, in press.

Conference proceedings:

1. I. Reiser, C. E. Metz, R.M. Nishikawa, "Human efficiency in the detection and discrimination tasks." Proc. SPIE 5372, 166, 2004.
2. I. Reiser, E. Y. Sidky, M. L. Giger, R. M. Nishikawa, E. A. Rafferty, D. B. Kopans, R. Moore, and T. Wu, "Reconstruction-independent method for computerized mass detection in digital tomosynthesis images of the breast", Proc. SPIE 5370, 833, 2004.
3. I. Reiser, R. M. Nishikawa, M. L. Giger, E. A. Rafferty, D. B. Kopans, R. Moore, and T. Wu, "Computerized Detection of Mammographic masses in Digital Breast Tomosynthesis Images Using Radial Gradient Index Filtering", International Congress Series 1268, 1352, 2004
4. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "Computerized Detection of Mass Lesions in a Series of Projection Images for Digital Breast Tomosynthesis - preliminary results", In: IWDM 2004, E. D. Pisano (ed.), 578-583, 2005
5. R.M. Nishikawa, Y. Jiang, I. Reiser: What is the Required Pixel Size for Digital Mammography? In: IWDM 2004, E. D. Pisano (ed.), 81-85, 2005.
6. I. Reiser, R.M. Nishikawa, "Human performance for detection and discrimination of simulated microcalcifications in mammographic backgrounds" Proc. SPIE 5749 223-230 (2005).
7. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "A Multi-Scale 3D Radial Gradient Filter for Computerized Mass Detection in Digital Tomosynthesis Breast Images", International Congress Series 1281 1058-1062 (2005).
8. I. Reiser, EY Sidky, RM Nishikawa, XC Pan: "Development of an analytic breast phantom for quantitative comparison of reconstruction algorithms for digital breast tomosynthesis", In: Digital Mammography 2006, S. Astley, M. Brady, C. Rose and R. Zwigelaar (eds.), Lecture notes in computer science, 190-196, (2006).
9. I. Reiser, RM Nishikawa, EY Sidky, MR Chinander, P Seifi: "Development of a Model for Breast Tomosynthesis Image Acquisition", Proc. SPIE 6510 65103D (2007).
10. E. Y. Sidky, I. Reiser, RM Nishikawa, X. C. Pan: "Image reconstruction in digital breast tomosynthesis by total variation minimization", Proc. SPIE 6510 651027 (2007).
11. R. M. Nishikawa, I. Reiser, P Seifi: "A new approach to digital breast tomosynthesis for breast cancer screening", Proc. SPIE 6510 65103C (2007).
12. I. Reiser, J. Bian, R. M. Nishikawa, E. Y. Sidky, X. Pan: "Comparison of reconstruction algorithms for digital breast tomosynthesis", 9th International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine, 155-158 (2007)
13. B. A. Lau, I. Reiser, R. M. Nishikawa: "Microcalcification detectability in tomosynthesis", Proc. SPIE 6913 69134L (2008).
14. E. Y. Sidky, I. Reiser, R. M. Nishikawa, and X.C. Pan: "Practical iterative reconstruction in digital breast tomosynthesis by non-convex TpV optimization", Proc. SPIE 6913 691328 (2008).
15. I. Reiser, B. A. Lau, R. M. Nishikawa: "Effect of Scan Angle and Reconstruction Algorithm on Model Observer Performance in Tomosynthesis". Digital Mammography/IWDM 2008:606-611.
16. I. Reiser, R. M. Nishikawa, B. A. Lau:" Effect of non-isotropic detector blur on microcalcification detectability in tomosynthesis", Proc. SPIE 7258, 72585Z (2009)
17. I. Reiser, S. Lee, K. Little, R. M. Nishikawa, "Towards validation of a 3D structured background model for breast imaging", Proc. SPIE 7627, 762716 (2010)
18. I. Reiser, S. P. Joseph, R. M. Nishikawa, M. L. Giger, J. Boone, K. Lindfors, A. Edwards, N. Packard, R. H. Moore, D. B. Kopans, "Evaluation of a 3D lesion segmentation algorithm on DBT and breast CT images", Proc. SPIE 7624, 76242N (2010)
19. I. Reiser, R. M. Nishikawa: "Human Observer Performance in a Single Slice or a Volume: Effect of Background Correlation". Workshop on Digital Mammography / IWDM 2010: 327-333
20. P. R. Bakic, B. A. Lau, A.-K. Carton, I. Reiser, A. D. A. Maidment, Robert M. Nishikawa: An Anthropomorphic Software Breast Phantom for Tomosynthesis Simulation: Power Spectrum Analysis of Phantom Projections". Workshop on Digital Mammography / IWDM 2010: 452-458
21. B. A. Lau, I. Reiser, and R. M. Nishikawa, "Issues in characterizing anatomic structure in digital breast tomosynthesis", Proc. SPIE 7961, 796113 (2011)

22. I. Reiser and R. M. Nishikawa, "Signal-known exactly detection performance in tomosynthesis: does volume visualization help human observers?", Proc. SPIE 8318, 83180K (2012)
23. H. Kuo, M. L. Giger, I. S. Reiser, J. M. Boone, K. K. Lindfors, K. Yang, and A. Edwards, "Evaluation of stopping criteria for level set segmentation of breast masses in contrast-enhanced dedicated breast CT", Proc. SPIE 8315, 83152C (2012)
24. I. Reiser, B. A. Lau, R. M. Nishikawa and P. R. Bakic, "A Directional Small-Scale Tissue Model for an Anthropomorphic Breast Phantom", In: 11th International Workshop on Breast Imaging (IWDM2012), Lecture Notes in Computer Science 7361, 141-148 (2012)
25. H.-C. Kuo, M. L. Giger, I. Reiser, J. M. Boone, K. K. Lindfors, K. Yang and A. Edwards, "Level Set Breast Mass Segmentation in Contrast-Enhanced and Non-Contrast-Enhanced Breast CT", In: 11th International Workshop on Breast Imaging (IWDM2012), Lecture Notes in Computer Science 7361, 697-704 (2012)
26. H.-C. Kuo, M. L. Giger, I. Reiser, K. Drukker, A. Edwards, C. A. Sennett, "Automatic 3D lesion segmentation on breast ultrasound images", Proc. SPIE 8670, 867025 (2013).
27. I. Reiser, E. Y. Sidky, R. M. Nishikawa, K. Yang, J. M. Boone, X.-C. Pan, "Fast, Robust Dynamic Field-of-View Adjustment for Iterative Reconstruction of Dedicated Breast CT Images", 2013 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)

Book editing:

1. I. Reiser and S. Glick, "Tomosynthesis Imaging", Taylor & Francis, 2014

Book chapters:

1. I. Reiser and R. M. Nishikawa, "Computerized Mass Detection for Digital Breast Tomosynthesis", in "Recent Advances in Breast Imaging, Mammography, and Computer-Aided Diagnosis of Breast Cancer", Editors: Jasjit S. Suri, Rangaraj M. Rangayyan, SPIE press, 2006
2. I. Reiser, "Image perception and assessment", in "Diagnostic Radiology Physics: A Handbook for Teachers and Students", Editor: D. McLean, International Atomic Energy Agency, Vienna, (in press).
3. I. Reiser, "Tomosynthesis", in "Emerging Imaging Technologies in Medicine", Editors: M. Anastasio and P. J. La Riviere, Taylor & Francis, 2013.
4. I. Reiser, B. Lau, R. Nishikawa, "Tomosynthesis system modeling", in "Tomosynthesis Imaging", Editors: I. Reiser and S. Glick, Taylor & Francis, 2014

Conference presentations and exhibits:

1. A. Svensson, I. Reiser, D. Dowek, J.C. Houver, J. Salgado, J.W. Thomsen, "Réactions de capture électronique sélectionnant l'état quantique initial et final d'un système collisionnel". Presented at the 3ième Colloque sur la Dynamique des Ions, des Atomes et des Molécules, Albi, 19-21 juillet 1994.
2. D. Dowek, J.C. Houver, I. Reiser, C. Richter, J. Salgado, A. Svensson, J.W. Thomsen, N. Andersen, "State to state charge transfer processes : present status of the experiment", H.C.M. network : "Lasers, Atoms and Molecules, Dynamical Interactions". Presented at the Gif sur Yvette, March 2-4 1994.
3. J.H.V. Lauritsen, J.W. Thomsen, C. Courbin, J.C. Houver, M. Machholm, J.O.P. Pedersen, I. Reiser, J. Salgado, E. Sidky, A. Svensson, D. Dowek, S.E. Nielsen and N. Andersen, "Orbital alignment dependence of electron capture in 1-50 keV Li+ -> Na(3p) collisions". Presented at the ECAMP 5, Edinburgh, 3-7 April 1995.
4. J.W. Thomsen, D. Dowek, J.C. Houver, I. Reiser, J. Salgado, A. Svensson, N. Andersen, "State to state charge transfer processes in Li+ -> Na(3s and 3p) collisions". Presented at the ECAMP 5 , Edinburgh, 3-7 April 1995.
5. I. Reiser, J. Salgado, J.W. Thomsen, D. Dowek, J. C. Houver, A. Svensson, "State to state electron transfer: Li+ + Na(3p) ->Li(2p) + Na+". Presented at the International Workshop on Heavy Particle-Collisions involving Optically Prepared Atoms, Centre de Formation de Gif sur Yvette, France, July 1997.
6. I. Reiser, J. Salgado, J.W. Thomsen, N. Andersen. D. Dowek, S. Grego, J. C. Houver, C. Richter, E.

- Sidky, A. Svensson, "State to state Na(3p,ml)->Li(2p,ml) electron transfer in Li+ - Na(3p) collisions". Presented at the XX. ICPEAC, Vienna, Austria, 23-29 July 1997.
7. I. Reiser, H. Bräuning, A. Diehl, A. Theiß, E. Sidky, M. Stöckli, C.L. Cocke, E. Salzborn, "Ion-Ion Collisions involving molecular targets: electron capture from H₂⁺ by He₂⁺ and Ar₂⁺". Presented at ICPEAC, Santa Fe, New Mexico, USA, 18-24 July 2001.
 8. I. Reiser and C. L. Cocke, "Alignment measurements in collisions of D₂⁺ with doubly charged projectiles". Presented at the 11th international conference on the physics of highly charged ions (HCI), 2002.
 9. Y Jiang, RM Nishikawa, ML Giger, J Papaioannou, L Lan, CJ Vyborny, RA Schmidt, GM Newstead, I Reiser, et. al: On-line demonstration of computer-aided diagnosis (CAD) of malignant and benign breast lesions. *Radiology* 225(P) 683, 2002.
 10. I. Reiser, C. E. Metz, R.M. Nishikawa, "Human efficiency in the detection and discrimination tasks." Presented at SPIE Medical Imaging Conference, February 2004, San Diego, CA.
 11. I. Reiser, E. Y. Sidky, and R. M. Nishikawa, "Reconstruction-independent method for computerized mass detection in digital tomosynthesis images of the breast". Presented at SPIE Medical Imaging Conference, February 2004, San Diego, CA.
 12. I. Reiser, R. M. Nishikawa, M. L. Giger, E. A. Rafferty, D. B. Kopans, R. Moore, and T. Wu, "Computerized Detection of Mammographic masses in Digital Breast Tomosynthesis Images Using Radial Gradient Index Filtering", Presented at CARS 2004, Chicago, IL
 13. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "Computerized Detection of Mass Lesions in a Series of Projection Images for Digital Breast Tomosynthesis - preliminary results", Presented at the 7th International Workshop for Digital Mammography, 2004
 14. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "Computerized Mass Detection for Digital Breast Tomosynthesis Directly from the Projection Images", Presented at the 90th Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2004, Chicago, IL.
 15. I. Reiser, R.M. Nishikawa, "Human performance for detection and discrimination of simulated microcalcifications in mammographic backgrounds" Presented at SPIE Medical Imaging Conference, February 2005, San Diego, CA.
 16. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "Efficient automatic pre-selection of mass lesion candidates in DBT breast volumes", Presented at the 47th annual meeting of the American Association of Physicists in Medicine, July 2005, Seattle, Washington
 17. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "A Multi-Scale 3D Radial Gradient Filter for Computerized Mass Detection in Digital Tomosynthesis Breast Images", Presented at CARS 2005, Berlin, Germany
 18. I. Reiser, R. M. Nishikawa, M. L. Giger, T. Wu, E. A. Rafferty, R. Moore, and D. B. Kopans, "Automated 3D detection of breast masses for Digital Breast Tomosynthesis (DBT)", Presented at the 91th Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2005, Chicago, IL.
 19. I. Reiser, EY Sidky, RM Nishikawa, XC Pan: "Development of an analytic breast phantom for quantitative comparison of reconstruction algorithms for digital breast tomosynthesis", 8th International Workshop on Digital Mammography in Manchester, UK, June 2006.
 20. I. Reiser, R. M. Nishikawa, D. B. Kopans, R. Moore, E. A. Rafferty and T. Wu, "Automated Detection of Microcalcifications in Digital Breast Tomosynthesis: A Feasibility Study of Using the Projection Images", Presented at the 92th Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2006, Chicago, IL.
 21. E. Y. Sidky, I. Reiser, RM Nishikawa, X. C. Pan: "Image reconstruction in digital breast tomosynthesis by total variation minimization", Presented at SPIE Medical Imaging Conference, February 2007, San Diego, CA.
 22. I. Reiser, R. M. Nishikawa, E. Y. Sidky, M. R. Chinander, P. Seifi, X. C. Pan: "Development of a model for breast tomosynthesis image acquisition", Presented at SPIE Medical Imaging Conference, February 2007, San Diego, CA

23. R. M. Nishikawa, I. Reiser, P. Seifi, C. J. Vyborny: "A new approach to digital breast tomosynthesis for breast cancer screening", Presented at the SPIE Medical Imaging Conference, February 2007, San Diego, CA.
24. I. Reiser, J. Bian, R. M. Nishikawa, E. Y. Sidky, X. C. Pan: "Comparison of reconstruction algorithms for digital breast tomosynthesis", 9th international meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine in Lindau, Germany, July 2007
25. E. E. Engstrom, R. M. Nishikawa, I. Reiser, "Comparison of the Breast Tissue Power Spectrum for Mammograms, Tomosynthesis Projection Images, and Tomosynthesis Reconstruction Images", Presented at the 93rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2007, Chicago, IL.
26. I. Reiser, R. M. Nishikawa, M. L. Giger, H. Derand, C. Ullberg, T. Francke, K. Lindman, D. B. Kopans, R. H. Moore, "Robustness of an Algorithm for Computerized Mass Detection in Digital Breast Tomosynthesis", Presented at the 93rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2007, Chicago, IL.
27. I. Reiser, R. M. Nishikawa: "Image Quality and Artifact Conspicuity in Breast Tomosynthesis", Presented at the 93rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2007, Chicago, IL.
28. I. Reiser, R. M. Nishikawa: "Effect of scan angle and reconstruction algorithm on model observer performance in tomosynthesis", 9th International Workshop on Digital Mammography in Tucson, Az, 2008.
29. I. Reiser, R. M. Nishikawa and B. A. Lau, "Dose dependence of lesion detectability in tomosynthesis", Presented at the 94rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2008, Chicago, IL.
30. I. Reiser, R. M. Nishikawa, and B. A. Lau: "Effect of non-isotropic detector blur on microcalcification detectability in tomosynthesis", presented at the SPIE imaging conference, February 2009, Orlando, FL.
31. I. Reiser, K. Little, R. M. Nishikawa, "Detectability in tomosynthesis projections, slices and volumes: Comparison of human observer performance in a SKE detection task". Presented at the XVIII meeting of the medical image perception society (MIPS), October 2009, Santa Barbara, CA.
32. I. Reiser, R. M. Nishikawa, "Human observer performance in a single slice or a volume: Effect of background correlation", 10th International Workshop on Digital Mammography in Girona, Spain, 2010.
33. P. Bakic, B. A. Lau, A. C. Karton, A. D. A. Maidment, I. Reiser, R. M. Nishikawa, "An Anthropomorphic Software Breast Phantom for Tomosynthesis Simulation: Power Spectrum Analysis of Phantom Projections", 10th International Workshop on Digital Mammography in Girona, Spain, 2010.
34. B. Lau, I. Reiser, R. Nishikawa, P. Bakic, A. K. Carton, A. Maidment: "An Antropomorphic Software Breast Phantom for Tomosynthesis Simulation: Power Spectrum Analysis of Phantom Reconstructions", Med. Phys. 37, 3473 (2010).
35. I. Reiser, M. Giger, R. M. Nishikawa, J. M. Boone, K. K. Lindfors, K. Yang, "Automated Detection of Mass Lesions in Breast CT", Presented at the 97th Scientific Assembly and Annual Meeting of the Radiological Society of North America, November 2011, Chicago, IL.
36. I. Reiser, Z. Lu, R. Nishikawa, " Contrast-To-Noise Ratio Is Not an Appropriate Measure of CT Image Quality When Comparing Different Iterative Reconstruction Algorithms", presented at the 54th meeting of the American Association of Physicists in Medicine (AAPM), August 2012, Charlotte, NC; Med. Phys. 39, 4014 (2012).
37. I. Reiser and R. Nishikawa, "A hybrid Fourier-spatial-domain observer model for 3-dimensional image data", presented at the XV. Medical Imaging Perception Society conference, August 2013, Washington, DC.
38. I. Reiser, E. Y. Sidky, R. M. Nishikawa, K. Yang, J. M. Boone, and X. Pan, "Fast, Robust Dynamic Field-of-View Adjustment for Iterative Reconstruction of Dedicated Breast CT Images", Presented at the 2013 IEEE Nuclear Science Symposium and Medical Imaging Conference, Seoul, South Korea
39. I. Reiser, R. M. Nishikawa, J. M. Boone, K. K. Lindfors, K. Yang, "Computer-aided Diagnosis (CADx) as a Surrogate Measure of Image Quality: Dependence of CADx Performance on Reconstruction

- Parameters in Dedicated Breast CT", Presented at the 99th Scientific Assembly and Annual Meeting of the Radiological Society of North America, December 2013, Chicago, IL.
40. E. Y. Sidky, I. S. Reiser, R. M. Nishikawa, "Enhancing tissue structures with iterative image reconstruction for digital breast tomosynthesis", accepted for presentation at the SPIE medical imaging conference 2014

Professional societies:

- 2012- American Association of Physicists in Medicine (AAPM)
2014- International Society for Optics and Photonics (SPIE)