Andrew Raymond Godley

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Education:

2001	Doctor of Philosophy in High Energy Physics, University of Sydney
1996	Bachelor of Science in Physics with 1st class honors, University of Western Australia

Professional Experience:

2019 – Present	UT Southwestern – Associate Professor and Director of Clinical Physics
2018 - 2019	Miami Cancer Institute – Senior Photon Physicist
2017 - 2018	Cleveland Clinic - Radiation Oncology – Staff Medical Physicist
2011 - 2017	Cleveland Clinic - Radiation Oncology – Associate Staff Medical Physicist
2014 - 2018	Cleveland Clinic - Biomedical Engineering
2012 - 2018	Cleveland State University - Adjunct Faculty
2011 - 2018	Cleveland Clinic Lerner College of Medicine - Assistant Professor of Medicine
2007 - 2010	Medical College of Wisconsin - Post-doctoral Fellow
2005 - 2007	University of South Carolina - Senior Research Scientist
2004	Post-doctoral guest scientist at the Fermilab Accelerator Division
2001 - 2003	University of South Carolina - Post-doctoral Research Fellow

Certification:

2011	American Board of Radiology - Therapeutic Radiologic Physics

Clinical Experience:

– Special Procedures: SBRT, SRS, TSEI & TBI
– Linear accelerators: Viewray, Varian Trilogy & Truebeam, Elekta Synergy, Siemens Artiste
– CT: Philips & Siemens
– MR: Siemens
– Other modalities: Gamma Knife Icon, Perfexion & 4C, Nucletron, Mobetron, Zeiss, Tomotherapy
– Planning systems: Eclipse, Pinnacle, XiO, Oncentra, Prowess, VariSeed, GammaPlan, MIM, Velocity, Viewray
– Record & Verify: Mosaiq, Aria
– Auxiliary systems: VisionRT, C-RAD, Active Breathing Coordinator, Calypso, Clarity, RPM, SDX
– Commissioned TBI and TSEI beams
– Linac commissioning
– Hyperthermia
– Brachytherapy: HDR, prostate seeds, eye plaques, IVBT, Therasphere
– RTOG protocol credentialing
– ACR accreditation

Professional Organizations:

2017-2018	President-Elect(2017) President(2018) of Penn-Ohio chapter of AAPM
2014-present	Society of Thermal Medicine
2011-present	American Society for Radiation Oncology
2007-present	American Association of Physicists in Medicine
2001-present	American Physical Society

Awards:

1997-2000	Australian Postgraduate Award - Ph.D. Scholarship
2015-2016	Association of Residents in Radiation Oncology: Educator of the Year

Teaching Experience:

2017-2018 (CCF):	Program Director of Medical Physics Residency
2015-2017 (CCF):	Associate Director of Medical Physics Residency
2013-2018 (CCF):	Responsible for physics education of medical residents
2013 (CSU):	Developed Computational Medical Physics course
2011-2018 (CSU):	Lecturer in "Radiation Therapy Physics", "Introduction to Medical Physics" & "Radiation Safety"
2011-2018 (CCF):	Mentor medical physics masters students on research projects and clinical rotations
2011-2018 (CCF):	Instruction in medical physics to medical and physics residents
2007-2010 (MCW):	Instruction and demonstration of medical physics to residents and radiation therapy technologist students. Mentored 3 undergraduate research assistants.
2001-2007 (USC):	Mentored 4 graduate students and 4 undergraduate research assistants

Committees:

2016-present	Member of AAPM working group on Doctor of Medical Physics
2014-2016	Member of AAPM Committee for Medical Physics Education of Physicians
2012-2018	Member, Workflow Enhancement Team, Radiation Oncology, Cleveland Clinic
2012-2018	Member, Medical Physics, Cleveland Clinic
2012-2018	Alternate, Quality Assurance Committee, Cleveland Clinic
2012-2018	Member, Steering and Curriculum Committee, Medical Physics, CSU
2012-2018	Member, Physics Residency Committee, Radiation Oncology, Cleveland Clinic
2011-2018	Member, Improving Organizational Performance, Radiation Oncology, Cleveland Clinic

Service:

2007-present	Serve as a referee for *Medical Physics* (Guest Associate Editor), *Physics in Medicine and Biology*, *IEEE Transactions on Medical Imaging*, *International Journal of Radiation Oncology * Biology * Physics*, *Radiotherapy and Oncology*, *Practical Radiation Oncology*, *Radiotherapy and Oncology*, *Prostate Cancer* and *Journal of Oncology*

Books:

Strategies for Radiation Therapy Treatment Planning, P Xia, A Godley, C Shah, G Videtic, J Suh, Demos Medical 2019

Physics of Radiation Oncology Self-Assessment Guide, A Godley, P Xia, Demos Medical, 2016

Book Chapters:

1. "Alternative Radiation Therapy Modalities," S Kost, A. Godley, Demos Medical, 2016
2. "Connectivity issues in radiation oncology and the role of IHERO in Radiotherapy in cancer care: facing the global challenge," Abdel-Wahab M, Godley A, Able C. IAEA publication (2012)
3. "Recent results from the MINOS Experiment," A Godley on behalf of the MINOS collaboration, Fundamental Interactions: Proceedings of the 22nd Lake Louise Winter Institute, editors: Alan Astbury, Faqir Khanna and Roger Moore, World Scientific Publishing, 262-266, (2008)
4. "Proposal to measure the speed of mu-type neutrinos to two parts in 10^6," T Bergfeld, A Godley, SR Mishra and C Rosenfeld, CPT and Lorentz Symmetry, Proceedings of the third meeting, 318-323 (2004)

Research Support:

NVIDIA GPU Grant (2018)

Elekta Inc, Research Grant ($141k 2014-2016, PI Godley)

Conebeam based online adaptive planning with ABAS

Medical Physics publications:

1. "Technical Note: Characterization of X-ray beam profiles for a fluoroscopic system incorporating copper filtration," K Wunderle, **A. Godley**, Z Shen, F Dong, Med Phys 46(11), 4918-4922 (2019)
2. "Clinical and dosimetric evaluation of recurrent breast cancer patients treated with hyperthermia and radiation," S Dharmaiah, J Zeng, V. Rao, Z Ouyang, T Ma, K Yu, **A Godley**, P Xia, JS Yu, Int J of Hypothermia 36(1):986-992 (2019)
3. "MR-linac is the best modality for lung SBRT," **Godley, A**, Zheng, D and Rong, Y, J Appl Clin Med Phys. 20(6):7-11 (2019)
4. "Use of a Linear Accelerator for Conducting In Vitro Radiobiology Experiments," J Hao, A Magnelli, **A Godley**, JS Yu, In Press, J. Vis. Exp. (147), e59514 (2019)
5. "The effects of extra high dose rate irradiation on glioma stem-like cells," J Hao, **A Godley**, J Shoemake, Z Han, A Magnelli, JS Yu, PLoS One 13(8):e0202533 (2018)
6. "Temporally feathered intensity modulated radiation therapy: a planning technique to reduce normal tissue toxicity," J Alfonso, S Parsai, N Joshi, **A Godley**, C Shah, S Koyfman, J Caudell, C Fuller, H Enderling, J Scott, Med Phys 45(7):3466-3474 (2018).
7. "Review of pulsed reduced dose rate re-irradiation for recurrent tumors," K Rogacki, S Chao , J Yu, **A Godley**, E Balagamwala, J Suh, E Murphy, J Cancer Clin Trials 3:2 (2018)
8. "The impact of decompression with instrumentation on local failure following spine stereotactic radiosurgery," Miller JA, Balagamwala EH, Berriochoa CA, Angelov L, Suh JH, Benzel EC, Mohammadi AM, Emch T, Magnelli A, **Godley A**, Qi P, Chao ST, J Neurosurg Spine 27(4):436-443 (2017)
9. "Targeting Cancer Stem-like Cells with Hyperthermia," H Huang, K Yu, A Mohammadi, E Karanthanasis, **A Godley** and J Yu, J Stem Trans Bio, 2(27000113), (2017)
10. "Risk of developing chronic myeloid neoplasms in well-differentiated thyroid cancer patients treated with radioactive iodine," R J Molenaar, C Pleyer, T Radivoyevitch, S Sidana, **A Godley**, et al, Leukemia (2017)
11. "Sensitivity of array detector measurements in determining shifts of MLC leaf positions," Q Shang, **A Godley**, L Huang, P Qi, P Xia, J of App Clin Med Phys, 18(5):80-88 (2017)
12. "Intensity Modulated Radiation Therapy with Pulsed Reduced Dose Rate as a Re-irradiation Strategy for Recurrent Central Nervous System Tumors: An Institutional Series and Literature Review," ES Murphy, K Rogacki, **A Godley**, et al, PRO, 7(6) e391-e399, (2017)
13. "The Impact of Decompression with Instrumentation upon Local Failure following Spine Stereotactic Radiosurgery," Miller, JA; Balagamwala, EH; Berriochoa, CA; Angelov, L; Suh, JH; Benzel, EC; Mohammadi, AM; Emch, T; Magnelli, A**; Godley, A**; Qi, P; Chao, ST, J of Neurosurgery: Spine. 27(4):436-443 (2017)

14. “Stereotactic Radiosurgery for the Treatment of Primary and Metastatic Spinal Sarcomas,” Miller JA, Balagamwala EH, Angelov L, Suh JH, Djemil T, Magnelli A, Qi P, Zhuang T, Godley A, Chao ST, Technol Cancer Res Treat. 16(3):276-284 (2017)
15. Percent Depth Doses and X-ray Beam Characterizations of a Fluoroscopic System Incorporating Copper Filtration,” K Wunderle, **A. Godley**, Z Shen, J Rakowski, F Dong, Med Phys 44(4):1275-1286, (2017)
16. “It's Getting Hot in Here: Targeting Cancer Stem-like Cells with Hyperthermia,” Huang H, Yu K, Mohammadi A, Karanthanasis E, **Godley A**, Yu JS, J Stem Cell Transplant Biol. 2017;2(2) (2017)
17. “Departmental workload and physician errors in radiation Oncology,” Tariq MB, Meier T, Suh JH, Reddy CA, **Godley A** et al, J Patient Saf. (2016)
18. “Using daily diagnostic quality images to validate planning margins for prostate interfractional variations,” W Li, A Vassil, **A Godley**, L Muhieddine Mossolly, Q Shang, and P Xia, J of App Clin Med Phys, 19(3):61-74, (2016)
19. “Hyperthermia Sensitizes Glioma Stem-like Cells to Radiation by Inhibiting AKT Signaling,” Man J, Shoemake JD, Ma T, Rizzo AE, **Godley AR**, Wu Q, Mohammadi AM, Bao S, Rich JN, Yu JS, Cancer Res. 75(8):1760-9, (2015)
20. “Workflow Enhancement (WE) Improves Safety in Radiation Oncology: Putting the WE and Team Together at Cleveland Clinic,” S Chao, T Meier, B Hugebeck, C Reddy, **A Godley**, M Kolar, J Suh, Int J Radiat Oncol Biol Phys 89:4 765-772 (2014).
21. “Combining prior day contours to improve automated prostate segmentation,” **A Godley**, LJ Sheplan Olsen, K Stephans, A Zhao, Med Phys, 40 021722 (2013).
22. “Accumulating daily-varied dose distributions of prostate radiation therapy with soft-tissue based kV CT guidance,” **A Godley**, E Ahunbay, C Peng, XA Li, J Appl Clin Med Phys, 13(3) 98-107 (2012)
23. “Interfractional Target Variations for Partial Breast Irradiation,” E Ahunbay, J Robbins, R Christian, **A Godley**, J White, XA Li, Int J Radiat Oncol Biol Phys, 82:5, 1594-1604 (2012)
24. “An online adaptive replanning method for prostate radiotherapy,” E Ahunbay, C Peng, S Holmes, **A Godley**, C Lawton, XA Li, Int J Radiat Oncol Biol Phys 77:5 1561-1572 (2010)
25. “An on-line replanning method for head and neck adaptive radiotherapy,” E Ahunbay, C Peng, **A Godley**, C Schultz, and XA Li, Med. Phys 36 10, (2009)
26. “Automated registration of large deformations for adaptive radiation therapy of prostate cancer,” **A Godley**, E Ahunbay, C Peng and XA Li, Med. Phys. 36 4, (2009)

Medical Physics presentations:

1. “MR-Linac Image Distortion and Stability,” T Romaguera, T Poozhikala, D Alvarez, A Gutierrez, V Mishra, **A Godley**, Med. Phys 46 (6) e424 (2019)
2. “Dosimetric Impact of Bulk Assignment Versus Deformed CT-Based Electron Density in Abdominal MR-Linac Planning,” T Romaguera1, **A Godley**, D Alvarez, V Mishra, A Gutierrez, G Luciani, Med. Phys 46 (6) e318 (2019)
3. “SBRT Pancreas Target Coverage Achieved by Real-Time, On-Table Adaptive Treatment Planning Using An MR-Linac,” D Alvarez, T Romaguera, **A Godley**, G Luciani, M Chuong, V Mishra, A Gutierrez, Med. Phys 46 (6) e229 (2019)

4. "Auto Segmentation of Male Pelvis on CBCT Using 3D U-Net," R. L.J. Qiu, T Ma, K Stephans, C Shah, **A Godley**, P Xia, Med. Phys 46 (6) e138 (2019)
5. "Feasibility of Temporally Feathered Intensity Modulated Radiation Therapy Plans: Techniques to Reduce Normal Tissue Toxicity," Parsai S, Donaghue J, Alfonso, JCL, Joshi NP, **Godley A**, Caudell JJ, Fuller CD, Enderling H, Koyfman SA, Scott JG, Int J Radiat Oncol Biol Phys 102:3 e530 (2018)
6. "Calculation of head and neck treatment doses on cone-beam CT," Qiu L, Joshi N, Woody N, Koyfman S, **Godley A** Int J Radiat Oncol Biol Phys 102:3 e540 (2018)
7. "Review of Patients Undergoing Fluoroscopically-Guided Interventions and External Beam Radiation Therapy Within a Quaternary Care Medical Center," A Zhao, K Wunderle, **A Godley** Med. Phys 45 (6) e436 (2018)
8. "Effect of CBCT Field of View On Calculation of Head and Neck PTV Coverage," R LJ Qiu, N Joshi , N Woody , S Koyfman , **A Godley** Med. Phys 45 (6) e404 (2018)
9. "A Failure Modes and Effects Analysis Identified Poor Communication as the Greatest Weakness in the Process of Patient Specific IMRT QA," K Verdecchia, T Cui, S Kost, M Sands, L Zickefoose, T Kovacs, **A Godley** Med. Phys 45 (6) e475 (2018)
10. "Auto-Contour Based Treatment Alignment of Prostate Patients," Y Shen, L Qiu, K Stephans, C Shah, **A Godley** Med. Phys 45 (6) e460 (2018)
11. "Smoothing the Transition to a New Cancer Center Through a Workflow Enhancement Team," M Sands, T Meier , M Kolar , S Chao , **A Godley** Med. Phys 45 (6) e272 (2018)
12. "Prostate SBRT Intrafraction Monitoring With Transperineal Ultrasound," A.L. Smith, K.L. Stephans, M.D. Kolar, O.Y. Mian, R.D. Tendulkar, P. Xia, **A.R. Godley**, Int J Radiat Oncol Biol Phys 99:2 E722–E723 (2017)
13. "Auto-Contour Guided Prostate Patient Positioning," L. Qiu, K.L. Stephans, C.S. Shah, A**.R. Godley**, Int J Radiat Oncol Biol Phys 99:2, E712–E713 (2017)
14. "Incorporating Mutual Information into Atlas Selection for Multi-Atlas based Rectum Auto-Contouring," L Qiu, K Stephans, C Shah, **A Godley**, Med. Phys 44, 3056 (2017)
15. "Online Adaptive VMAT Planning Based On Deformed Dose for Patients Undergoing Concurrent Prostate, Seminal Vesicle and Lymph Node Treatment," L Qiu, AVassil, **A Godley**, Med. Phys 44, 3105 (2017)
16. "Real-Time Monitoring of the Prostate Bed Using Ultrasound," A Smith, K Stephans, M Kolar, O Mian, R Tendulkar, P Xia, **A Godley**, Med. Phys 44, 2794 (2017)
17. "MLC Consistency and Patient Specific VMAT QA with Log Files," R McDermott, **A Godley**, S Balik, Med. Phys 44, 2938 (2017)
18. "Validation of Deformable Image Registration Software Using a Standard CT Phantom," K Verdecchia, L Qiu, A Magnelli, S Balik, S Kost, **A Godley**, P Xia, Med. Phys 44, 3174 (2017)
19. "Medical Physics Update," Best of Radiation Oncology, Independence OH, (2016)
20. "Strategies for Auto-contouring Cone Beam Computed Tomography Scans for Prostate Online Adaptive Therapy," L. Qiu, K.L. Stephans, A.D. Vassil, C.S. Shah, **A.R. Godley**, Int J Radiat Oncol Biol Phys 96:2, E678, (2016)

21. "Quantitative Measures Improve Safety, Quality, and Efficiency in Radiation Therapy," P. Xia, N. Yu, M.D. Kolar, **A.R. Godley**, S.T. Chao, R.D. Tendulkar, J.H. Suh, , Int J Radiat Oncol Biol Phys 96:2, S232 (2016)
22. "The Effect of CBCT Volume Cutoff On Dose Calculations for Adaptive Planning," K Byers and **A Godley**, Med. Phys. 43, 3420 (2016)
23. "Online Adaptive VMAT Planning Based On Deformed Dose," R Qiu, A Vassil and **A Godley**, Med. Phys. 43, 3431 (2016)
24. "Fluoroscopic X-Ray Beam Profiles for Spectra Incorporating Copper Filtration," K Wunderle, **A Godley**, Z Shen, J Rakowski and F Dong, Med. Phys. 43, 3404 (2016)
25. "Percent Depth Dose Curves for Fluoroscopic X-Ray Beam Qualities Incorporating Copper Filtration, K Wunderle, **A Godley**, Z Shen, J Rakowski and F Dong, Med. Phys. 43, 3347 (2016)
26. "Half-Value Layer Thicknesses and Homogeneity Coefficients for Fluoroscopic X-Ray Beam Spectra Incorporating Spectral Filtration," K Wunderle, **A Godley**, Z Shen, J Rakowski and F Dong, Med. Phys. 43, 3404 (2016)
27. "Deriving Delivered Doses to Assess the Viability of 2.5 Mm Margins in Head and Neck SBRT," S Lin, Q Shang, S Pirozzi and **A Godley**, Med. Phys. 43, 3782 (2016)
28. "Using Dose Weighted Mean Effective Depth to Improve Accuracy of Secondary MU Calculation for VMAT Plans," H Qu, N Yu, P Qi, **A Godley** and P Xia, Med. Phys. 43, 3526 (2016)
29. "Radioactive Iodine Treatment of Thyroid Cancer and Risk of Myelodysplastic Syndromes," C Pleyer, S Sidana, TRadivoyevitch, RMolenaar, **A Godley**, et al, ASH (2015)
30. "Guiding cone beam autocontouring with one known contour," **A Godley**, L J Sheplan Olsen, KL Stephans, Int J Radiat Oncol Biol Phys, 93:3, E584, (2015)
31. "Hyperthermia And Radiation For Recurrent Breast Cancer," JS Yu, S Dharmaiah, V Rao, **A Godley**, Int J Radiat Oncol Biol Phys, 93:3, E48-49, (2015)
32. "Improved CT to CBCT Deformable Registration Accuracy by Incorporating Multiple CBCTs," **A Godley**, L Sheplan Olsen and K Stephans, Med. Phys. 42, 3287 (2015)
33. "One-Year Experience With the Workflow Enhancement (WE) Team: Does Continuous Improvement Have to Be Continuous?" S.T. Chao, T. Meier, **A. Godley**, et al, Int J Radiat Oncol Biol Phys 90:1 S744 (2014)
34. "A Rapid Large Increase in Patient Visits Can Compromise Quality and Safety in Radiation Oncology Treatment Delivery," T. Meier, J. Suh, **A. Godley**, et al, Int J Radiat Oncol Biol Phys 90:1 S735–S736 (2014)
35. "Deformed Planning CT as An Electron Density Substitute for Cone-Beam CT," K Mishra and **A Godley**, Med. Phys. 41, 164 (2014)
36. "Development of the Center for Hyperthermia," J Yu and **A Godley**, Society for Thermal Medicine Annual Meeting (2014)
37. "The Good, Bad and Ugly (including Pitfalls) of AAPM TG-142," **A Godley**, Invited talk at Fall Joint Symposium, Ohio River Valley & Penn-Ohio AAPM Chapters, October 2013.
38. "Deformed planning CT as an electron density substitute for Cone-beam CT," K Mishra, **A Godley**, Fall Joint Symposium, Ohio River Valley & Penn-Ohio AAPM Chapters, October 2013.
39. "Automatic CBCT-Based Online Adaptive Prostate Therapy," **A Godley**, A. Zhao, K. Stephans, Int J Radiat Oncol Biol Phys 87:2 S137 (2013)

40. "Auto-Contouring Accuracy in the Presence of a Rectal Balloon," **A Godley**, A Stockham, K Stephans Med. Phys. 40, 90 (2013)
41. "Implementing and Evaluating Aperture Morphing for CBCT-Based Adaptive Planning," A Zhao, **A Godley**, K Stephans, Med. Phys. 40, 533 (2013)
42. "Segmentation Guided Deformable Registration of Large Organ Variation in the Prostate Region", **Godley A**, Itomlenskis M, Int J Radiat Oncol Biol Phy 84:3 S216-S217 (2012)
43. "Comparison of Reproducibility of Manual and Automated Prostate Contouring Using Kilovoltage Cone-Beam Computed Tomography and Diagnostic Quality Computed Tomography", Sheplan Olsen LJ, **Godley A**, A Zhao, Vassil A, Xia P, Int J Radiat Oncol Biol Phy 84:3 S749-S750 (2012)
44. "Improving Clinical Target Volume (CTV) Dose Homogeneity and Normal Tissue Maximum Dose for Endoesophageal High-dose Rate (HDR) Brachytherapy: One versus Three HDR Tube Technique", Greskovich JF, Kolar MD, Wilkinson A, **Godley A**, Int J Radiat Oncol Biol Phy 84:3 S870 S870 (2012)
45. "Evaluating Auto-Contouring of Prostate KV Conebeam CTs", **A Godley**, L Sheplan Olsen, and K Stephans, Med Phys 39, 3676 (2012)
46. "Effect of Contour Accuracy on DVH Parameters" A Zhao, **A Godley**, Med Phys, 39, 3596 (2012)
47. "Using a Three Tube Technique", J Greskovich, M Kolar, **A Godley**, A Wilkinson, World Congress of Brachytherapy, May 2012
48. "Comparison of Reproducibility of Manual and Automated Prostate Contouring Using Kilovoltage Cone-Beam Computed Tomography and Diagnostic Quality Computed Tomography", LJ Sheplan Olsen, **A Godley**, A Zhao, A Vassil, P Xia, American Radium Society, May 2012
49. "Combining Prior Day Contours to Enhance Automated Prostate Segmentation", **A Godley**, LJ Sheplan Olsen, Int J Radiat Oncol Biol Phy 81:2 S61 (2011)
50. "Application of auto-segmentation to adaptive radiotherapy", **A Godley**, invited talk at the 20th Annual Elekta Oncology Users Meeting, Miami Beach, FL, October 2011
51. "Temporal Lobe Sparing In Craniopharyngioma Radiotherapy With Cyst Growth", **A Godley**, M. Bedi, S. Firat, X. Li, Int J Radiat Oncol Biol Phys 78:3 S593-S594 (2010)
52. "GPU-Accelerated Auto-Segmentation for Online Adaptive Radiotherapy", **A Godley**, C Peng, E Ahunbay, X Li, Med Phys 37, 3188 (2010)
53. "Accumulating Delivered Doses Based On Daily CT in Head and Neck Cancer Radiotherapy", B Hu, **A Godley**, E Ahunbay, K Wang, X Li, Med Phys 37, 3154 (2010)
54. "GPU-Accelerated auto-segmentation for adaptive radiotherapy", **A Godley**, C Peng, E Ahunbay, XA Li, NCCAAPM 2010 Spring Meeting, Madison, WI
55. "Auto-segmentation For Radiation Treatment Planning Of Breast Cancer," **AR Godley**, A Tai, J White, XA Li, Int J Radiat Oncol Biol Phys 75:3 S634 (2009)
56. "Interfractional Change of Lumpectomy Cavity during Partial Breast Irradiation", EE Ahunbay, J Robbins, **A Godley**, J White, XA Li, Int J Radiat Oncol Biol Phys 75:3 S142-S143 (2009)
57. "An Online Replanning Technique for Breast Adaptive Radiation Therapy," X. Li, E. Ahunbay, **A. Godley**, N. Morrow, J.F. Wilson, J. White, Int J Radiat Oncol Biol Phys 75:3 S71 (2009)
58. "Auto-segmentation For Radiation Treatment Planning Of Breast Cancer", **A Godley,** invited talk at the Elekta Radiation Oncology Users Meeting, Chicago, IL (2009)

59. "Calculation of Cumulative Dose for Daily CT-Guided Prostate Irradiation Using Deformable Image Registration", **A Godley**, E Ahunbay, C Lawton, X Li, Med Phys 36 2507 (2009)
60. "MRI-To-CT Deformable Registration for Treatment Planning of Breast Irradiation", **A Godley**, E Ahunbay, E Paulson, J White, X Li, Med Phys 36, 2515 (2009)
61. "Improving the Temporal Resolution of Dynamic MRI by Deformable Alignment of the Peripheral K-Space," E Ahunbay, E Paulson, **A Godley**, XA Li, Med Phys 36, 2705 (2009)
62. "An Online Replanning Technique with Deformation-Based Aperture Morphing and Weight Optimization," E Ahunbay, **A Godley** , X Li, Med Phys 36, 2735 (2009)
63. "A novel registration tool for large deformations for adaptive radiation therapy," **A Godley**, E Ahunbay, C Peng, XA Li, NCCAAPM 2008 Fall Meeting, Milwaukee, WI
64. "Biologically Based Corrections for Interfraction Variations During Prostate Cancer Radiation Therapy," JH Park, XA Li, **A Godley**, and RD Stewart, Med Phys 35, 2934 (2008)
65. "A Novel Registration Tool of Large Deformations for Adaptive Radiation Therapy," **A Godley**, E Ahunbay, C Peng, J Christensen, and X Li. Med Phys 35, 2681 (2008)
66. "Automated Registration of Large Deformations for Adaptive Radiation Therapy of Prostate Cancer," **AR Godley**, E Ahunbay, C Peng, J Christensen, X Li, Int J Radiat Oncol Biol Phys, 72:1, S1, S554 (2008)
67. "PTV Margin to Account for Deformation during Prostate IGRT," C Peng, E Ahunbay, **A Godley**, CA Lawton, X Li, Int J Radiat Oncol Biol Phys, 72:1, S1, S570 (2008)

High energy and nuclear physics publications:

1. "Measurement of Charged Pion Prodution Yields off the NuMI Target," MIPP collaboration, Phys.Rev.D90 (2014)
2. "A Precision Measurement of Charm Dimuon Production in Neutrino Interactions from the NOMAD Experiment," NOMAD Collaboration, Nucl.Phys. B876 339-375 (2013)
3. "A Search for Single Photon Events in Neutrino Interactions in NOMAD," NOMAD Collaboration Phys.Lett. B706 (2012)
4. "Forward Neutron Production at the Fermilab Main Injector," MIPP Collaboration Phys. Rev. D83:012002 (2011)
5. "Observation in the MINOS far detector of the shadowing of cosmic rays by the sun and moon," MINOS Collaboration, Astropart Phys34:457-466 (2011)
6. "New constraints on muon-neutrino to electron-neutrino transitions in MINOS," MINOS Collaboration, Phys Rev D82:051102 (2010)
7. "Search for sterile neutrino mixing in the MINOS long baseline experiment," MINOS Collaboration, Phys Rev D81:052004 (2010)
8. "A Measurement of Coherent Neutral Pion Production in Neutrino Neutral Current Interactions in NOMAD", NOMAD Collaboration, Phys Lett B682:177-184 (2009)
9. "Neutrino and Antineutrino Inclusive Charged-current Cross Section Measurements with the MINOS Near Detector," MINOS Collaboration , Phys. Rev. D81:072002 (2010)
10. "Charged Kaon Mass Measurement using the Cherenkov Effect," MIPP Collaboration, Nucl Instrum Meth A615:27-32 (2010)

11. “Observation of muon intensity variations by season with the MINOS far detector,” MINOS Collaboration, Phys. Rev. D 81:012001 (2010)
12. “Search for muon-neutrino to electron-neutrino transitions in MINOS,” MINOS Collaboration Phys. Rev. Lett. 103:261802 (2009)
13. “Sudden stratospheric warmings seen in MINOS deep underground muon data,” MINOS Collaboration, Geophys. Res. Lett. 36:L05809 (2009)
14. “A study of quasi-elastic muon neutrino and antineutrino scattering in the NOMAD experiment,” NOMAD Collaboration, Eur. Phys. J. C 63 355-381 (2009)
15. “Search for active neutrino disappearance using neutral-current interactions in the MINOS long-baseline experiment,” MINOS Collaboration, Phys. Rev. Lett. 101 221804 (2008)
16. “Measurement of Neutrino Oscillations with the MINOS Detectors in the NuMI Beam,” MINOS Collaboration Phys. Rev. Lett. 101:131802 (2008)
17. “The magnetized steel and scintillator calorimeters of the MINOS experiment,” MINOS Collaboration, Nuclear Inst. and Methods in Physics Research, A 596,190-228 (2008)
18. “Study of muon neutrino disappearance using the Fermilab Main Injector neutrino beam,” MINOS Collaboration, Phys. Rev. D 77 072002 (2008)
19. “A precise measurement of the muon neutrino-nucleon inclusive charged current cross-section off an isoscalar target in the energy range 2.5 < E(nu) < 40-GeV by NOMAD,” Q Wu, SR Mishra, A Godley et al, Phys. Lett. B660 19-25 (2008)
20. “Measurement of neutrino velocity with the MINOS detectors and NuMI neutrino beam,” MINOS Collaboration, Phys. Rev. D76:072005 (2007)
21. “Measurement of the atmospheric muon charge ratio at TeV energies with MINOS,” MINOS Collaboration, Phys. Rev. D76:052003 (2007)
22. “Charge-separated atmospheric neutrino-induced muons in the MINOS far detector,” MINOS Collaboration, Phys.Rev.D75:092003 (2007)
23. “Search for the exotic Theta+ resonance in the NOMAD experiment,” NOMAD Collaboration, Phys. J. C49:499-510 (2007)
24. “Observation of muon neutrino disappearance with the MINOS detectors and the NuMI neutrino beam,” MINOS Collaboration, Phys.Rev.Lett.97:191801 (2006)
25. “Production properties of K*(892)+- vector mesons and their spin alignment as measured in the NOMAD experiment,” NOMAD Collaboration, Eur. Phys. J. C46:69-79 (2006)
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