

## NIH BIOGRAPHICAL SKETCH

<b>NAME</b> Clifton David Fuller, MD	<b>POSITION TITLE</b> Human Imaging Resident/Graduate Student, Department of Radiation Oncology/Department of Radiology, Graduate Division of Radiological Sciences, The University of Texas Health Science Center at San Antonio		
<b>EDUCATION/TRAINING</b> <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE (if applicable)</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
Abilene Christian University, Abilene, TX	BS	1998	Psychology/Biology
The University of Texas Health Science Center at San Antonio	MD	2006	Medicine
The University of Texas Health Science Center at San Antonio	PhD	In progress	Human Imaging/ Radiological Sciences

**A. Positions and Honors.** List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

### Positions

2006 - Present, (Primary), Resident, University of Texas Health Science Center at San Antonio, Medical School, Radiation Oncology  
 2006 - Present, Cross-Appointed Research Faculty, Oregon Health & Science University, School of Medicine (SOM), Radiation Medicine  
 2006 - Present, Human Imaging Graduate Trainee, University of Texas Health Science Center at San Antonio, Graduate School of Biomedical Science, Radiological Sciences

### Honors/Awards

2008-2010, NIH Clinical Research Loan Repayment Program, National Institutes of Health (L30 CA136381)  
 2009, SWOG Committee of Radiation Therapy, Appointee (ad hoc)  
 2009, ACR Quality Research in Radiation Oncology GI Committee Appointee, American College of Radiology  
 2009, Travel Scholarship, University Hospital House Staff Council, University of Texas Health Science Center at San Antonio  
 2009, Clinical Poster Recognition Award, ASTRO 51st Annual Meeting, American Society for Radiation Oncology  
 2009, ARS Annual Meeting Travel Grant, American Radium Society  
 2009, ESTRO Technology Transfer Grant, European Society for Therapeutic Radiology and Oncology, Nederlands Kanker Instituut - Antoni van Leeuwenhoek Ziekenhuis  
 2008, RSNA Roentgen Resident/Fellow Research Award, Radiological Society of North America Research & Education Foundation  
 2009-2008, Quality and Accreditation Subcommittee Appointee, Graduate Medical Education Committee, University of Texas Health Science Center at San Antonio  
 2009-2008, Product Development Support Grant, Society for Imaging Informatics in Medicine  
 2009-2008, Housestaff Council Member (Secretary), University Hospital  
 2009-2008, SIIM Product Development Grant, Society for Imaging Informatics in Medicine  
 2008-2007, Research Travel Fellowship, European Association for Cancer Research  
 2009-2007, Multidisciplinary Training Grant in Human Imaging, UTHSCSA Graduate Division of Radiological Sciences/National Institute of Biomedical Imaging and BioEngineering (5T32EB000817-04)  
 2008-2007, RSNA Research & Education Foundation Research Resident/Fellow Grant (RR0732), Radiological Society of North America  
 2007, Travel Scholarship, University Hospital House Staff Council, University of Texas Health Science Center at San Antonio  
 2007, ABS Resident Travel Award, American Brachytherapy Society Annual Meeting  
 2008-2007, UTHSCSA Graduate Medical Education Committee (GMEC), Office of Graduate Medical Education, University of Texas Health Science Center at San Antonio, Resident Appointee  
 2006-2005, Carolyn L. Kuckein Memorial Medical Student Research Scholarship, Alpha Omega Alpha Medical Student Honor Society  
 2005, Translational Research in Radiation Oncology Symposium Travel Grant, American Society of Therapeutic Radiology and Oncology  
 2005, 2nd Annual Gastrointestinal Oncology Conference Travel Grant, International Society for Gastrointestinal Oncology  
 2006-2005, Committee on Cancer Appointee, Texas Medical Association  
 2004, First place- UTHSCSA Medical Student Research Day Poster Competition, Medical Dean's Office, University of Texas Health Science Center at San Antonio  
 2004, Summer Medical Student Research Stipend, Medical Dean's Office, University of Texas Health Science Center at San Antonio  
 2005-2003, Coordinating program committee member, TMA Physician Oncology Education, Texas Medical Association  
 2003, Nomination Committee, Sunset Ridge Foundation, Sunset Ridge Church of Christ  
 2004-2003, Mentored Medical Student Clinical Research Program Award (M01-RR01346), National Institutes of Health/National Center for Research Resources/Frederic C. Bartter General Clinical Research Center, University of Texas Health Science Center at San Antonio  
 2003, Outstanding Medical Student, Department of Radiation Oncology, University of Texas Health Science Center at San Antonio  
 2004-2003, Bartter Scholar, Frederic C. Bartter General Clinical Research Center, University of Texas Health Science Center at San Antonio  
 2004-2003, Committee on Cancer Appointee, Texas Medical Association  
 2003, Medical Student Research Stipend Award, American Cancer Society/Medical Dean's Office, University of Texas Health Science Center at San Antonio  
 2003, Student Research Stipend, Department of Radiation Oncology, University of Texas Health Science Center at San Antonio  
 2003, Medical Student Summer Research Program, Department of Radiation Oncology, University of Texas M.D. Anderson Cancer Center

2004-2003, Student Fellowship Grant, Society of Nuclear Medicine  
2003, Travel Scholarship, 1st International Target Delineation Symposium for IMRT/3D CRT Treatment Planning, University of Texas M.D. Anderson Cancer Center  
2003, Physician Oncology Education Program/ Medical Student Scholarship, Texas Medical Association  
2002, Summer Medical Student Research Stipend, Medical Dean's Office, University of Texas Health Science Center at San Antonio  
2002, Physician Oncology Education Program/ Medical Student Scholarship, Texas Medical Association  
2003-2002, Medical Student Departmental Grant, Radiological Society of North America  
2001, Summer Medical Student Research Stipend, Medical Dean's Office, University of Texas Health Science Center at San Antonio  
2001-2000, Vice President, UTHSCSA Chapter, Texas Medical Association Medical Student Section  
2000, Medical Student Section Travel Grant, Texas Medical Association  
1999, Student Research Stipend, Audie L. Murphy VA Hospital GRECC, University of Texas Health Science Center at San Antonio  
1998, Summer Research Project Stipend, Biology Department, Abilene Christian University  
1997, Student Research Grant, Psychology Department, Abilene Christian University  
1996-1994, Student Athlete Academic Award, Athletic Department, Abilene Christian University  
1996-1994, Academic Team Representative, Football Program, Athletic Department, Abilene Christian University

## **B. Selected peer-reviewed publications (in chronological order).**

Fuller CD, Nijkamp J, Duppen J, et al. Prospective randomized double-blind pilot study of site-specific consensus atlas implementation for rectal cancer target volume delineation in the cooperative group setting. *Int J Radiat Oncol Biol Phys*, 2009 In Press.

Fuller CD, Scarbrough TJ, Sonke JJ, et al. Method comparison of automated matching software assisted cone-beam CT and stereoscopic kilovoltage X-ray positional verification image-guided radiation therapy for head and neck cancer: a prospective analysis. *Physics in medicine and biology*, 2009 54(24):7401-15.

Zamoni BA, Yothers G, Choi M, Fuller CD, et al. Conditional Survival and the Choice of Conditioning Set for Patients with Colon Cancer: An Analysis of NSABP Trials C-03 through C-07. *J Clin Oncol* 2009; In Press.

Fuller CD, Wang SJ, Choi M, et al. Multimodality therapy for locoregional extrahepatic cholangiocarcinoma: a population-based analysis. *Cancer* 2009 115(22):5175-83.

Rosenthal DI, Fuller CD, Barker JL, Jr., et al. Simple Carotid-Sparing Intensity-Modulated Radiotherapy Technique and Preliminary Experience for T1-2 Glottic Cancer. *Int J Radiat Oncol Biol Phys* 2009; In Press.

Baluna R, Fuller CD, Eng TY, et al. Radiation-induced toxicity in cancer patients with low plasma fibronectin levels, *Journal of Radiotherapy in Practice* 2010; In Press

Fuller CD, Dang ND, Wang SJ, et al. Image-guided intensity-modulated radiotherapy (IG-IMRT) for biliary adenocarcinomas: Initial clinical results. *Radiother Oncol* 2009; 92:249-254.

Fuller CD, Choi M, Thomas CR, Jr. Bibliometric analysis of radiation oncology departmental scholarly publication productivity at domestic residency training institutions. *J Am Coll Radiol* 2009; 6:112-118.

Choi M, Fuller CD, Wang SJ, et al. Effect of body mass index on shifts in ultrasound-based image-guided intensity-modulated radiation therapy for abdominal malignancies. *Radiother Oncol* 2009; 91:114-119.

Bleyer A, Choi M, Wang SJ, et al. Increased vulnerability of the spinal cord to radiation or intrathecal chemotherapy during adolescence: A report from the Children's Oncology Group. *Pediatr Blood Cancer* 2009; 53:1205-1210.

Wang SJ, Fuller CD, Kim JS, et al. Prediction model for estimating the survival benefit of adjuvant radiotherapy for gallbladder cancer. *J Clin Oncol* 2008; 26:2112-2117.

Wang SJ, Fuller CD, Choi M, et al. A cost-effectiveness analysis of adjuvant chemoradiotherapy for resected gastric cancer. *Gastrointest Cancer Res* 2008; 2:57-63.

Rosenthal DI, Chambers MS, Fuller CD, et al. Beam path toxicities to non-target structures during intensity-modulated radiation therapy for head and neck cancer. *Int J Radiat Oncol Biol Phys* 2008; 72:747-755.

Fuller CD, Schillerstrom JE, Jones WE, 3rd, et al. Prospective evaluation of pretreatment executive cognitive impairment and depression in patients referred for radiotherapy. *Int J Radiat Oncol Biol Phys* 2008; 72:529-533.

Fuller CD, Housman DM, Thomas CR. Radiotherapy for thymoma and thymic carcinoma. *Hematol Oncol Clin North Am* 2008; 22:489-507.

Choi M, Fuller CD, Thomas CR, Jr., et al. Conditional survival in ovarian cancer: results from the SEER dataset 1988-2001. *Gynecol Oncol* 2008; 109:203-209.

Wang SJ, Fuller CD, Thomas CR, Jr. Ethnic disparities in conditional survival of patients with non-small cell lung cancer. *J Thorac Oncol* 2007; 2:180-190.

Wang SJ, Fuller CD, Emery R, et al. Conditional Survival in Rectal Cancer: A SEER Database Analysis. *Gastrointest Cancer Res* 2007; 1:84-89.

Wang SJ, Emery R, Fuller CD, et al. Conditional survival in gastric cancer: a SEER database analysis. *Gastric Cancer* 2007; 10:153-158.

Wang SJ, Choi M, Fuller CD, et al. Intensity-modulated Radiosurgery for patients with brain metastases: a mature outcomes analysis. *Technol Cancer Res Treat* 2007; 6:161-168.

Fuss M, Wong A, Fuller CD, et al. Image-guided intensity-modulated radiotherapy for pancreatic carcinoma. *Gastrointest Cancer Res* 2007; 1:2-11.

Fuller CD, Wang SJ, Thomas CR, Jr., et al. Conditional survival in head and neck squamous cell carcinoma: results from the SEER dataset 1973-1998. *Cancer* 2007; 109:1331-1343.

Fuller CD, Choi M, Forthuber B, et al. Standard fractionation intensity modulated radiation therapy (IMRT) of primary and recurrent glioblastoma multiforme. *Radiat Oncol* 2007; 2:26.

Eng TY, Boersma MG, Fuller CD, et al. A comprehensive review of the treatment of Merkel cell carcinoma. *Am J Clin Oncol* 2007; 30:624-636.

Rosenthal DI, Fuller CD, Machtay M, et al. Phase I study of Paclitaxel given by seven-week continuous infusion concurrent with radiation therapy for locally advanced non-small cell lung cancer. *J Thorac Oncol* 2006; 1:38-45.

Rassiah-Szegedi P, Salter BJ, Fuller CD, et al. Monte Carlo characterization of target doses in stereotactic body radiation therapy (SBRT). *Acta Oncol* 2006; 45:989-994.

Lai LL, Fuller CD, Kachnic LA, et al. Can pelvic radiotherapy be omitted in select patients with rectal cancer? *Semin Oncol* 2006; 33:S70-74.

Jones K, Fuller CD, Luh JY, et al. Case report and summary of literature: giant perineal keloids treated with post-excisional radiotherapy. *BMC Dermatol* 2006; 6:7.

Fuller CD, Thomas CR, Jr., Wong A, et al. Image-guided intensity-modulated radiation therapy for gallbladder carcinoma. *Radiother Oncol* 2006; 81:65-72.

Fuller CD, Thomas CR, Schwartz S, et al. Method comparison of ultrasound and kilovoltage x-ray fiducial marker imaging for prostate radiotherapy targeting. *Phys Med Biol* 2006; 51:4981-4993.

Esquivel C, Jr., Fuller CD, Waggener RG, et al. Novel low-kVp beamlet system for choroidal melanoma. *Radiat Oncol* 2006; 1:36.

Eng TY, Boersma MK, Fuller CD, et al. The role of radiation therapy in benign diseases. *Hematol Oncol Clin North Am* 2006; 20:523-557.

Luh JY, Eng TY, Fuller CD. Minimizing urinary bladder radiation dose during brachytherapy for carcinoma of the cervix using balloon inflation technique: In regard to Malaker et al. (*Int J Radiat Oncol Biol Phys* 2005;61:257-266). *Int J Radiat Oncol Biol Phys* 2005; 62:944; author reply 944-945.

Garcia JA, Bhakta S, Fuller CD, et al. Multidisciplinary approach to superior sulcus tumors. *Cancer J* 2005; 11:189-197.

Cavanaugh SX, Fuller CD, Kupelian PA, et al. Time and PSA threshold model prognosticates long-term overall and disease-specific survival in prostate cancer patients as early as 3 months after external beam radiation therapy. *Prostate Cancer Prostatic Dis* 2005; 8:353-358.

Fuller CD, Diaz I, Cavanaugh SX, et al. In vivo dose perturbation effects of metallic dental alloys during head and neck irradiation with intensity modulated radiation therapy. *Oral Oncol* 2004; 40:645-648.

Fuller CD, Braden CJ, Thomas CR, Jr. Quality of life: from a Tower of Babel toward a unified voice. *Int J Radiat Oncol Biol Phys* 2004; 58:1334-1335.

Eng TY, Naguib M, Fuller CD, et al. Treatment of recurrent Merkel cell carcinoma: an analysis of 46 cases. *Am J Clin Oncol* 2004; 27:576-583.

Eng TY, Fuller CD, Jagirdar J, et al. Thymic carcinoma: state of the art review. *Int J Radiat Oncol Biol Phys* 2004; 59:654-664.

Eng TY, Fuller CD, Cavanaugh SX, et al. Significant rectal and bladder dose reduction via utilization of Foley balloon catheters in high-dose-rate tandem and ovoid intracavitary brachytherapy of the uterine cervix. *Int J Radiat Oncol Biol Phys* 2004; 59:174-178.

Eng TY, Boersma MG, Fuller CD, et al. Treatment of merkel cell carcinoma. *Am J Clin Oncol* 2004; 27:510-515.  
Cavanaugh SX, Kupelian PA, Fuller CD, et al. Early prostate-specific antigen (PSA) kinetics following prostate carcinoma radiotherapy: prognostic value of a time-and-PSA threshold model. *Cancer* 2004; 101:96-105.

Eng TY, Naguib M, Galang T, et al. Retrospective study of the treatment of urethral cancer. *Am J Clin Oncol* 2003; 26:558-562.

Hamilton ML, Guo Z, Fuller CD, et al. A reliable assessment of 8-oxo-2-deoxyguanosine levels in nuclear and mitochondrial DNA using the sodium iodide method to isolate DNA. *Nucleic Acids Res* 2001; 29:2117-2126.

**C. Research Support.** List selected ongoing or completed research projects (federal and non-federal support).

Current support:

*Evaluation of human-computer interface and software-assisted optimization radiotherapy target delineation (L30 CA136381)*

National Institutes of Health/Clinical Research Loan Repayment Program  
Awardee: Clifton D. Fuller, MD

Previous support:

2009-2010

*Target Contour Testing/Instructional Computer Software (TaCTICS): A Novel Training and Evaluation Platform for Radiotherapy Target Delineation*

Principal Investigator: Clifton D. Fuller, MD

Society for Imaging Informatics in Medicine (SIIM): Small Product Development Grant

Role: Clinical Scientist, Principal Investigator

2007-2009

*Multi-Disciplinary Training Grant in Human Imaging (5T32EB000817-04)*

Principal Investigator: Gary Fullerton, PhD

National Institutes of Health/ National Institute of Biomedical Imaging and Bioengineering

Role: Human Imaging Student, Sub-awardee

2009

*Analysis of target delineation variability using "Big Brother"*

Principal Investigator: Clifton D. Fuller, MD

European Society for Therapeutic Radiology and Oncology: Technology Transfer Grant

Role: Clinical Scientist, Principal Investigator

2007

*Human-Computer Interface Differentials in Target volume Delineation: A Multi-Institutional Study (RR0732)*

Principal Investigator: Clifton D. Fuller, MD

Radiological Society of North America Resident Research Grant

Role: Clinical Scientist, Principal Investigator

2005-2006

*Clinical and dosimetric analysis of intensity modulated radiotherapy (IMRT) for biliary tract tumors.*

Alpha Omega Alpha Medical Honor Society Carolyn L. Kuckein Memorial Medical Student Research Scholarship

Student/Mentor: Clifton D. Fuller, BS/ Charles R. Thomas, Jr., MD

Role: Research Student

2003-2004

*Ultrasound-based image-guidance approaches for conformal radiotherapy (GCRC M01-RR01346)*

National Institutes of Health/National Center for Research Resources Mentored Medical Student Award

Student/Mentor: Clifton D. Fuller, BS/ Martin Fuss, MD, PhD

Role: Research Student

2002-2003

*Novel PET imaging agents for prostatic carcinoma*

Society for Nuclear Medicine Education and Research Fund

Student/Mentor: Clifton D. Fuller, BS/ William Phillips, MD, PhD

Role: Research Student