APPENDIX 2. STUDENT ACADEMIC PRODUCTIVITY DUKE RADIATION HEALTH AND PROTECTION SECTION 2005-2017

AWARD WINNING STUDENT PAPERS

In the last eight years (2005-2016), ten of our HP graduate students won the student paper competitions at local and national Health Physics Society meetings; some subsequently received travel funds to present their papers at the Annual Health Physics Society meetings.

Bria Moore (2016)
- Patient Dose Comparison for Intraoperative Imaging Devices Used in Orthopedic Lumbar Spinal Surgery. NC Health Physics Society Spring Meeting, Carolina Beach, NC, Mar 3-4, 2016. 2016 NCHPS Student Paper Competition- Second Prize

Natalie Januzis (2014)

Brett Mattison (2014)
- Novel Approach for Effective Dose Measurements in Dual-Energy CT. NC Health Physics Society Spring Meeting, Carolina Beach, NC, Mar 6-7, 2014. 2014 NCHPS Student Paper Competition- Second Prize

Matthew Belley (2013)
- Cs-137 and 320kVp orthovoltage small animal irradiator organ dose comparison using Monte Carlo Methods. NC HPS Spring Meeting, Carolina Beach, NC. Feb 28 - March 1, 2013. 2013 NC HPS Student Paper Competition – First Prize
Anna Rodrigues (MS 2012)
- Dose verification in small animal image guided radiation therapy: A dose comparison between TG-61 based look-up table and MOSFET method for various collimator sizes. NC HPS Spring Meeting, Raleigh, NC. March 15-16, 2012. **2012 NC HPS Student Paper Competition- First Prize.**

Mats Fredrickson (MS 2011)
- Can Ludlum Portal Monitor be used for screening of population from radiological terrorism events? NC Chapter HPS meeting, March 3-4, 2011. Chapel Hill, NC. **2011 NC HPS Student Paper Competition- First Prize**
Samuel Brady (PhD 2010)
- Radiation Dosimetry for 10 MeV Neutrons Using XRQA Radiochromic Film. **Lutz Moritz Memorial Award, Accelerator Section, Health Physics Society** at Annual HPS Meeting. Salt Lake, UT, June 29, 2010.

Abogunde MA (MS 2009)
- Small Animal Dosimetry: Dose comparison between AAPM TG-61 and MOSFET-based phantom dosimetry. NCHPS Spring Meeting, New Bern, NC, Mar. 13, 2009 **Best Student Paper Award**. She presented the same paper at the 2009 Health Physics Society Meeting in Minneapolis, MN.

Kim S (PhD 2010)
- A Monte Carlo dose estimation method using a voxelized phantom for pediatric CBCT. Submitted. NCHPS Spring Meeting, New Bern, NC, Mar. 13, 2009. **Best Student Paper Award**. He presented the same paper at the 2009 Health Physics Society Meeting in Minneapolis, MN.

Sangroh Kim and Mary Abogunde shared the Best Student Paper Awards at the North Carolina HPS Spring meeting 2009
Samuel Brady (MS, 2007)

GRADUATE FELLOWSHIP RECIPIENTS

**DUKE UNIVERSITY Graduate Student Training Enhancement Grant**
- 2017
  - Bria Moore (PhD student)

**DUKE UNIVERSITY CHANCELLOR’S SCHOLARSHIP**
- 2016
  - Justin Raudabaugh (PhD student)

**HEALTH PHYSICS SOCIETY GRADUATE FELLOWSHIP**
- 2015-2016
  - Bria Moore (PhD student)

- 2013-2014
  - Chu Wang (PhD student)

**U.S. NRC HEALTH PHYSICS FELLOWSHIP**
- 2012-2015
  - Matthew Belley (PhD student)
  - Natalie Januzis (PhD student)

- 2009-2010
  - Collin Anderson-Evans (MS awarded 2011)
  - Brent Fallin (MS awarded 2011)
2007-08
• Mary Ann Abogunde (MS awarded 2009)

**DUKE UNIVERSITY MEDICAL PHYSIC**
2015
• Justin Raudabaugh (Master)

**DUKE UNIVERSITY DEAN’S GRADUATE FELLOWSHIP**
2013-2015
• Bria Moore (PhD student)

**DUKE UNIVERSITY CHANCELLOR’S SCHOLARSHIP**
2013
• Bria Moore (PhD student)

**DUKE UNIVERSITY BIOCORE FELLOWSHIP**
2013
• Bria Moore (PhD student)

**U.S. AIR FORCE HEALTH PHYSICS FELLOWSHIP**
2012-2014
• Brett Mattison (MS student)

2010-2012
• Andrew Scott (MS awarded 2012)

**NIBIB TRAINING GRANT**
2011-2012
• Matthew Belley (1st year PhD student)

2009-2010
• Samuel Brady (PhD student)

**CARESTREAM HEALTH FELLOWSHIP**
2007-2008
• Sangroh Kim (PhD student)
STUDENT TRAVEL AWARDS RECIPIENTS

Health Physics Society Annual Meeting (Sponsor: Health Physics Society)

Raleigh, North Carolina, 9-13 July 2017
• Steven Hyatt (1st year MS Student)
• Bria Moore (4th year PhD Student)
• Justin Raudabaugh (3rd year PhD Student)
• Aaron Smith (2nd year MS Student)

Spokane, Washington, 17-21 July 2016
• Bria Moore (3rd year PhD Student)

Indianapolis, Indiana, 12-16 July 2015
• Natalie Januzis (3rd year PhD Student)
• Chu Wang (3rd year PhD Student)
• Matthew Belley (4th year PhD Student)
• Roland Womack (2nd year MS Student)

Baltimore, Maryland, 13-17 July 2014
• Natalie Januzis (2nd year PhD Student)
• Brett Matison (2nd year MS Student)
• Chu Wang (2nd year PhD Student)

Madison, WI, 7-11 July 2013
• Chu Wang (1st year PhD Student)
• Lei Ding (2nd year MS Student)
• Matthew Belley (3rd year PhD student)

Sacramento, CA, 22-26 July 2012
• Natalie Januzis (2nd year MS student)
• Matthew Belley (1st year PhD student)
• Chu Wang (2nd year MS student)
• Yanan Cao (1st year MS student)

Palm Beach, FL, June 26-30, 2011
• Natalie Januzis (1st year MS student)
• Anna Rodrigues (1st year MS student)

Salt Lake, UT June 26-July 1 2010
• Sam Brady (5th year PhD student)
Radiation Research Society Annual Meeting (Sponsor: RRS)
Las Vegas, NV, September 2014
- Matthew Belley (4th year PhD student)
- Natalie Januzis (3rd year PhD Student)

New Orleans, LA, September 2013
- Matthew Belley (3rd year PhD student)
- Chu Wang (1st year PhD Student)

Memphis BioImaging Symposium. November 3-4, 211 (Sponsor: Organizer)
- Natalie Januzis (2nd year MS student)
- Chu Wang (2nd year MS student)
- Andrew Scott (2nd year MS student)
- Anna Rodrigues (2nd year MS student)

STUDENT KUDOS

Chu Wang (PhD Student 2014)
- Chair, Student Support Committee, 2014-date (Health Physics Society)

Natalie Januzis (PhD Student 2014)
- Member, Student Support Committee, 2014-date (Health Physics Society)

Matthew Belley (PhD student 2014)
- Excellence in Research Award, Academic Year 2013-2014 (Duke University Medical Physics Graduate Program)
- Student Advisor, Student Support Committee, 2014-date (Health Physics Society)
- Student Representative, Intersociety Relations Committee, 2014-date (Health Physics Society)

Chu Wang (PhD Student 2013)
- Member, Student Support Committee, 2013-2014 (Health Physics Society)

Natalie Januzis (PhD Student 2013)
- Awarded the Director’s Award for Exemplary Service, 2012-2013 (Duke University Medical Physics Graduate Program)
Mats Fredrickson (MS 2011)
• First in the Graduating Class of 2011

Mary Ann Abogunde (MS 2009)
• Honored as 2009 Degree Marshall

ABSTRACTS BY STUDENTS (2007-2017): (student in bold letters)

2007

2008


**2009**


19. Crotty DJ, Jackson DC, **Brady SL**, Toncheva GI, **Anderson CE**, Yoshizumi TT, Tornai MP. Empirical measurement of the 3D dose distribution in the uncompressed breast using a
2010


2011


2012


2013


62. Belley MD, Stanton IN, Chang SX, Therien MJ, Yoshizumi TT. Validation of a Nanoparticle Terminated Fiber Optic Dosimeter on 6 MV LINAC for Photon and Electron Beams in a Solid Water Phantom. AAPM Annual Meeting, Indianapolis, Indiana, 4-8 August 2013.


2014


69. Belley MD, Stanton IN, Nguyen G, Yoshizumi TT, Therien MJ. A nano-particle based fiber-optic detector for in-vivo radiation detection and measurement in medicine. Council on


74. Terry Yoshizumi, **Natalie Januzis**, **Chu Wang**, **Matt Belley**. Current Issues In Radiation Protection In Diagnostic Imaging. Mid Year HPS Meeting Professional Development School. February 12-15, Lod Cook Conference Center, Baton Rouge, LA.

75. Terry Yoshizumi, **Natalie Januzis**, **Chu Wang**, **Matt Belley**. Current Issues In Radiation Protection In Diagnostic Imaging. NC HPS Spring Meeting, March 6-7, 2014. Carolina Beach, NC.


**2015**


**2016**

89. **Natalie Januzis, Donald Frush, Terry Yoshizumi*.** Radiation Dose to the Lens of the Eye from Computed Tomography Scans of the Head. Electric Power Research Institute, Charlotte, NC. June 1-2, 2016.


2017


PEER-REVIEWED PAPERS BY STUDENTS (2007-2013) (student in bold letters):

2008


2009


2010


2011


2012


18. Daniel J. Podberesky, Erin Angel, Terry T. Yoshizumi, Greta Toncheva, Shelia R. Salisbury, Christopher Alsip, Alessandra Barelli, John C. Egelhoff, **Colin Anderson-Evans**, Giao B. Nguyen, David Dow, and Donald P. Frush. Radiation Dose Estimation for Prospective and

2013


2014


2015


2016


43.