**I. Academic/Professional Background**

A. Name: Trina Lynn Dillard Title: Clinical Lecturer

B. Educational Background

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Degree** | **Year** | **University** | **Major** | **Thesis/Dissertation** |
|  |  | Midwestern State University Wichita Falls, Tx (online) | Radiologic Science | NA |
| Certificate | 2001 | The Medical Dosimetrists  Certification Board | Medical Dosimetry | NA |
| Certificate | 1989 | Washburn University Topeka, KS | Radiation Therapy | NA |
| Associate in science | 1988 | Labette Community College Parsons, KS | Radiography | NA |
|  | 1986 | Pittsburg State University  Pittsburg, KS | General | NA |

C. University Experience

|  |  |  |
| --- | --- | --- |
| Position | University | Dates |
| Clinical Lecturer | Texas State University | 12/1/2016- current |
| Program Faculty | Texas State University | 09/01/2015 – 11/30/2016 |

D. Relevant Professional Experience

|  |  |  |
| --- | --- | --- |
| Position | Entity | Dates |
| Client Resource Manager | Revenue Cycle Billing | 2015-present |
| Chief Radiation Therapist/Dosimetrist | US Oncology / Texas Oncology  South Austin Cancer Center,  San Marcos Cancer Center | 1997 - 2014 |
| Clinical Education Supervisor | US Oncology Centers | 2002 - 2014 |
| Position | Entity | Dates |
| US Oncology Clinical  Advisory Council | US Oncology Houston, TX | 2011 - 2014 |
| US Oncology Clinical Leadership Council | US Oncology Houston, TX | 2002 - 2011 |
| Medical Dosimetrist in Training  [Physics Department] | US Oncology / Texas Oncology- Sherman, TX | 1995 - 1997 |
| Radiation Therapist | Texas Oncology- Sherman, TX | 1993-1995 |
| Radiation Therapist | Tulsa Regional Medical Center  Tulsa, OK | 1989 - 1993 |
| X-ray technologist | St. Frances Medical Center Topeka, KS | 1988 - 1989 |

E. Other Professional Credentials (licensure, certification, etc.)

2017 to Present Texas Medical Board

Certified Medical Radiologic Technologist

Certificate Number GMR00013333

1989 to 2016 Texas Department of Health

Certified Medical Radiologic Technologist

Certificate Number 13333

2001 to Present The Medical Dosimetrists Certification Board

Registered Dosimetrist

CMD Number 1475725

1989 to Present The American Registry of Radiologic Technologists

Registered Technologist-Radiation Therapy

Certificate Number 229120Aq

1988 to Present The American Registry of Radiologic Technologists

Registered Technologist-Radiology Imaging

Certificate Number 229120

**II. TEACHING**

1. Teaching Honors and Awards:
2. Courses Taught:

(Direct Teaching Support) I am not the instructor of record for the following Texas State courses, but along with the recent purchase of the virtual education in radiation therapy (VERT) system, I have been charged with course instructional support with each instructor of record providing assistance supporting the development of new lesson plans in line with departmental goals. For some, I have been in the classroom to team teach throughout the entire semester insuring the application. What follows is a list of classes I have assisted with in support of the integration of the VERT system within the curriculum.

*RTT 4360 Dosimetry I*

*RTT 4361 Dosimetry II*

*RTT 4370 Clinical Radiation Oncology I*

*RTT 4371 Clinical Radiation Oncology II*

*RTT 4330 Quality Assurance*

*RTT 4331 Operational Issues*

*RTT 4321 Directed Clinical Learning*

*RTT 4322 Directed Clinical Learning*

*RTT 3350 Radiobiology*

*RTT 4370 Clinical Radiation Oncology*

*RTT 3301 Intro to Radiation Therapy*

*RTT 3314 Cross Sectional Anatomy*

*RTT 3120 Dir. Clinical Sim Lab 1*

*RTT 3310 Physics RTT 1*

*RTT 3121 Dir. Clinical Sim Lab 2*

*RTT 4220 Dir. Clinical Learning lll*

**#3220 Directed Clinical Learning I- Lecture**I am responsible for this class, canvas project site, curriculum, and delivery. We discuss the basic operations of the radiation oncology clinic while interacting with the electronic medical record, MOSAIQ and Vert, the flight simulator for the radiation treatment machine. Students learn about life in the clinic, equipment, treatment techniques, responsibilities of a Radiation Therapist, the process of care, documentation details, and charging requirements. Learning is achieved through discussion, demonstrations using MOSAIQ and Vert in the on-campus lab with assignments using the equipment. For their final project, a research focused assignment with provided relevant topics, assigns a poster to be created for a presentation to the class. When possible, this project is orchestrated as an IPE exercise with the HIM students to demonstrate how the radiation therapy and health information management (HIM) teams would collaborate to improve patient outcomes in a clinic.

**#3221 Directed Clinical Learning ll- Lecture** I am responsible for this class, canvas project site, curriculum, and delivery. We discuss the advanced operations of the radiation oncology clinic while interacting with the electronic medical record, MOSAIQ. The class is focused on the process of care for a radiation therapy patient, oncology terminology, equipment, and techniques used for treatment, documentation, and billing for the work done by a radiation therapist and other staff in the department. Learning is achieved through discussion, assignments, and demonstrations using MOSAIQ in the on-campus lab. This class supports the requirements of the ARRT Examination Content Specifications for Patient and Medical Record Management and basic charge capture terminology.

D. Graduate Theses/Dissertations, Honors Theses, or Exit Committees (if supervisor, please indicate):

E. Lab management, Courses Prepared and Curriculum Development:

2023 Assisted Chair and IT to prepare Academic Computing Committee (ACC) Grant for computer replacement to accommodate Windows 11 computer lab upgrade. Met with ITAC for computer demonstration to provide an acceptable selection of computer specs.

2023 Opened Communication with Elekta to prepare for Windows 11 upgrade. I researched the required computer system requirements to maintain functionality of MONACO dosimetry application and shared with Department Chair and Campus IT department.

2023 Coordinated vendor from ELEKTA MOSAIQ, to present to the class details for 2D and 3D image guidance and treatments using current vendor training data for our junior students. He also evaluated our system and provided guidance to enhance operation due to our lag during class assignments. (October)

2023 Coordinated a “1-hour instruction” with librarians in the Tx State Round Rock Library for the students and faculty in Learning Lab, 255C. Topics discussed were copy rights, literature reviews, library assets and research. Due to my communication with the librarians, they were able to link a Library Guide on my class canvas page for student help and reference with their research project. (Sept 29)

2023 Worked with campus IT to transfer MONACO computers from Avery 353 to Avery 112 to support the increase of our enrollment to 20 students. Verified operation, created new student secure log in on all computers and communicated to faculty to ensure a smooth beginning.

2023 Contacted Elekta MOSAIQ through the online account recently set up to create User accounts for the 20 new junior students for MOSAIQ cloud access. As the administrator of MOSAIQ, I then created profiles for each student with username and security rights. (August)

2023 Prepared computer lab for Fall semester. Replaced batteries in keyboards and mice, added to the classroom supply, logged into each computer to verified functionality of each software application, verified internet and training materials. Communicated with IT for found issues. Communicated with faculty the new passwords for access, security levels, training data availability and offered support.

2023 Emailed curriculum ideas, physics workbooks, and “how to” manuals for VERT to our new faculty member for the Quality Assurance class. We met for a face to face instruction on the application in the classroom. We reviewed the function of the system, library of teaching materials and ideas for the enhancement of the existing class. Once comfortable with the information, I offered my additional support whenever needed.

2023 Maintained vendor relations with VARIAN ARIA specialists, which provided an onsite visit and electronic medical record, ARIA instructional class for our junior students which was focused to complement their MOSAIQ application training. (April)

2022 Organized a “1-hour instruction” with two librarians in the Tx State Round Rock Library for the students and faculty on September 28 in Learning Lab, 255C. Topics discussed were copy rights, literature reviews, library assets and research. Due to my communication with the librarians, they were able to link a Library Guide on my class canvas page for student help and reference with their research project. (August)

2022 Monaco Risk Assessment completed with ITAC which was required by TX State (August)

2022 Received notice from VERTUAL to replace projector. I performed research and found the lamp hours for our VERT projector was 447. Replacement is advised in 2000. I recommended, with the support of ITAC, not to proceed with the expense. (August)

2022 Monaco has been installed and licensed on the two machines that required re-imaging. I download the training data and verified the computers were ready for the students to start the Fall semester (August)

2022 Contacted Elekta MOSAIQ to create User accounts for the 18 new junior students for cloud access. As the administrator of MOSAIQ, I then created profiles for each student with username and security rights. (July)

2022 Networking phone call with Klarity’s Ellen Devault and Eliza Larson, Director of Marketing and Sales to develop a training tool for students. (June)

2022 Provided a VERT instruction sheet to staff via email and printed copy for the VERT classroom as to how the turn on, find virtual presenters and other teaching materials (June)

2022 Developed vendor relations with VARIAN ARIA specialists, which provided an ARIA instruction class for our junior students which was focused to complement their MOSAIQ application training. (April)

2022 Supported ITAC with the Monaco Version 6 software upgrade in the lab with the 18 computers. I prepared the computers with the training data, user rights and verified the computers were ready for class. (February)

2022 Supported ITAC and Vertual with the hardware upgrade to VERT version 5 and Physics 1 install as it was only compatible with Windows10. Once the 3 computers were consolidated and placed on a new computer on the University network with internet access, I tested the system, verified all the training data was restored, loaded our information from the previous computer such as the virtual presenters, manuals, power points, files, and workbooks and discussed with VERT staff the missing image guidance files. The updated version included enhanced physics quality assurance modules, immobilization, PET CT fusion, plan comparison and dose volume histogram examples. Provided instructions to faculty. (January)

2021 Organized a “1.5-hour instruction” with two librarians in the Tx State Round Rock Library for the students and faculty on September 29 in Learning Lab, 255C. Topics discussed were copy rights, literature reviews, library assets and research.

2021 All new junior radiation therapy students were required to bring personal laptops to

access MOSAIQ cloud due to our classroom computers were not installed in Avery 112.

I spent time with each student to configure their laptop with Citrix receiver, Citrix app

and other options for their access to our Electronic Medical record, MOSAIQ, for class.

2021 Elekta MOSAIQ was attacked by ransomware in May which disabled our application. I collaborated with vendor to migrate and create a new Mosaiq database to a more secure platform for Texas State. I performed testing, recreated instruction documents, student, and faculty log in profiles, and communicated to all the new cloud-based log in information.

2021 Work with ITAC and VERT support for a hardware upgrade to resolve computer errors and for the VERT version 4 install. (January)

2020-2021 Prepare Classrooms for on campus teaching during COVID 19 pandemic. Attend meetings, discuss room design with ITAC and Chair to ensure faculty and students were safe.

2017- present My contribution to curriculum development for the radiation therapy program involves support of teaching to achieve the department goal of integrating the virtual education system within the radiation therapy curriculum and lab management. I have been charged as the Virtual Simulation Education Program Manager and Electronic Systems Education Coordinator.

2017- present Maintain Function of Radiation Therapy Lab as the Electronic Systems Educations

Coordinator, promote and maintain vendor relations, manage, coordinate, install and test the software updates, provide faculty and student username and password access, and provide ITAC communication to ensure support when needed.

2017- present Preparation and delivery in support of course enhancement by integration of the virtual education system and MOSAIQ, the electronic medical record system to include:

* The development of Power Point material and handouts, class instruction based on body systems and anatomy as related to courses.
* The correlation of virtual instructional strategies to illustrate several topics such as radiation beam arrangement and clinical rationale, recording patient setup, documenting treatment and parameters electronically, CPT codes and billing using electronic software.
* One-on-one training and lesson plan development using VERT, Monaco and Mosaiq for faculty.

2020 Work with ITAC to provide remote access to our lab computers for students to complete Dosimetry #4361. Completed Accessibility Exception Request.

2020 Attended training and reviewed Roadmap so I could provide faculty support for ZOOM and in person classes. Provided support for the new MX-P2 system camera install and function.

2020 Planning and research to provide details for the Elekta/Texas State Radiation Training facility that will include building a vault to house a linear accelerator.

2020 IPE event- Collaborated with HIM faculty to enhanced collaborative Fall semester assignment with both groups of Junior students to learn the Mosaiq and other HER, to evaluate the necessary components of an electronic medical record, and to recognize each other’s role in a treatment facility. Clinic based scenario was used to assign individual research which students presented as posters.

2020 Awarded Academic Computing Committee Grant Proposal for the Varian True Beam hand control pendant and Elekta Treatment System hand control pendant for our VERT lab. Supporting the Department Chair’s lead, I worked with the vendor and IT Business Services to secure our technology upgrade.

2020 Performed an all-radiation faculty meeting to review completed renovation and function of projectors, zoom camera and flow of rooms Encino Hall 215 and 218.

2019 Supported ITAC with the replacement of the 20 computers in the RTT lab, provided testing and guidance following the reinstall of the needed applications such as Mosaiq and Monaco.

2019 Renovation of RTT labs 215 and 218. Provided my review and expertise for construction/renovation to ensure flow and utilization of equipment was optimal. Removed computers from lab, coordinated schedules, selected equipment, arranged lab, and returned items to rooms prior to semester and communicated to faculty.

2019 Working with the RTT Chair for the proposal of the new Elekta training facility in Round Rock. Review documents, provide feedback and assist when possible.

2019 IPE event- Worked with HIM faculty and Radiation Therapy Chair to develop an enhanced collaborative semester assignment with both groups of students to learn Mosaiq and Meditec to evaluate the necessary components of an electronic medical record and to recognize each other’s role in a treatment facility.

2019 Created a Radiation Therapy shared folder to house documents for the planned capstone course. This provides opportunities to easily share processes, reference sheets, workbook, and other information to develop this new course. I also saved many documents that I created and/or saved for this class.

2019 I managed faculty and student worker’s rights in Role Management through the ITAC page, mapped the S drive to faculty computers to ensure access to our active shared folder, and created a number system on the computers to assist with efficient communication.

2019 Created templates to use with VERT for student simulation and critical thinking skill development. Worked with faculty to implement.

2019 Downloaded, tested, and provided teaching material for the VERT version 3.2 to the #218 lab main system and for the VERT laptop.

2018 IPE event- Worked with HIM faculty and Radiation Therapy Chair to develop a collaborative semester assignment with both groups of students to learn Mosaiq and evaluate the necessary components of an electronic medical record.

2017-2018 Developed vendor relations with Elekta Monaco specialists.

Dec 2017-Jan 2018 Downloaded new Monaco treatment planning software to computers, acquired license information and installed on computers as well as training data.

2017 Developed vendor relations with Elekta Mosaiq specialists.

December 2017 Configured cloud based Mosaiq application for all Junior students and faculty.

Set up profiles, security, and login information.

July 9-13, 2017 Radiation Therapy Virtual Education Leadership meeting. I met with several other faculty from Radiation Programs across the United States to create teaching tools using VERT, the virtual reality application.

February 2016 Working as the program liaison to Virtalis, Inc., I received data files and anew VERT laptop. I downloaded the software, applications, and patient CT image files with dosimetry planning information from emails they sent and arranged the file system to have study, procedures, instructions, and other helpful documents for teaching in a proper functioning format.

March 2, 2016 Working as the program liaison to Virtalis, Inc., I loaded data files on the new VERT computer in the Radiation Therapy lab. I downloaded the software, applications, and patient CT image files with dosimetry planning information from emails they sent and arranged the file system to have study, procedures, instructions, and other helpful documents for teaching in a proper functioning format.

2016 In direct support to course lesson plan development, I conducted summer workshops for other radiation therapy faculty to facilitate the delivery of virtual clinical classes for the following course.

RTT 4220 classroom Practicum Summer 2016 summer session 1

RTT 4220 classroom Practicum Summer 2016 summer session 2

E. Funded External Teaching Grants and Contracts:

F. Submitted, but not Funded, External Teaching Grants and Contracts:

G. Funded Internal Teaching Grants and Contracts:

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

I. Other:

2021 Provided my support, due to my extensive skill set in Radiologic Technology and

Medical Dosimetry for Funding Opportunity Number: W81XWH-21-BCRP-

BTA12 Proposal Title: Deep Learning Classification of Breast Cancer using

Imagery, Clinical Data, and Social Determinants of Health (March)

Continuing Education

2023 VERT 2023 US Users Meeting, San Diego, California October 2nd

2023 ASRT 46th Radiation Therapy Conference, San Diego, California October 9 credits

2023 Reflexion PET Linac Meeting, San Diego, California October

2023 Varian Users Meeting, San Diego, California October

2023 Radiation Oncology Gumbo: A Collaboration of Radiation Therapy and Medical Dosimetry Team Members, California October

2023 Incorporating Low Stress Teaching Methodologies to Reduce Student Burnout, California October

2023 The Story of Henrietta Lacks: A Lesson on Cancer Care Ethics, California October

2023 The EMR Documentation Code Capture and Facts for 2023, California October

2023 How Do the Economics of Health Care Affect Me as a Radiation Therapist? California October

2023 Clarifying Myths and Misinformation About Medical Radiation for Patients, California October

2023 Pushing the Boundaries of SGRT: Unique Usage Cases, California October

2023 Compassionate Communication: Keeping Patients at the Heart of Practice, California October

2023 Personality and Emotional Intelligence in Healthcare, California October

2023 Brachytherapy: Mission POSSIBLE, ONLINE webinar September

2023 SGRTuesday: SGRT SRS Masterclass: setting up for success with SGRT, Webinar ONLINE September

2023 MIM Assistant Webinar C-MDCB20230302, Webinar ONLINE September

2023 AAMD Efficiencies in Treatment Planning, Webinar ONLINE August

2023 AAMD Lean, Mean, Planning Machine – An Early Look at Eclipse v18, Webinar ONLINE August

2023 AAMD Robust Template Optimization - Impact in the Workplace, Webinar ONLINE August

2023 MIM Universal Workflows (New Defaults in 7.2) Webinar ONLINE February

2023 SGRTuesday: SGRT Choosing a system for more than just motion management, Webinar ONLINE February

2023 SGRTuesday: SGRT First steps and first successes, Webinar ONLINE February

2023 Radformation EZFluence: Beyond Tangents, Webinar, ONLINE January

2022 Radformation Impacting Global Health Through Radiotherapy: An Insight Series Webinar ONLINE December

2022 VERT 2022 US Users Meeting, San Antonio, Texas October 24th

2022 ASRT 45th Radiation Therapy Conference, San Antonio, Texas October

2022 Elekta Users Meeting, San Antonio, Texas October

2022 Varian Users Meeting, San Antonio, Texas October

2022 VisionRT Meeting highlighting SGRT learning sessions and updates about Vision RT products, October

2022 Varian’s Advanced Oncology Solutions: Partnering for Excellence in Oncology, October

2022 Raising the Roof at a Community Cancer Center using Surface-guided Radiosurgery October

2022 Varian’s Advanced Oncology Solutions: Partnering for Excellence in Oncology, October

2022 Maximizing Benefits from Adaptive RT through Reduced margin and Targeted Patient Selection October

2022 Varian Treatment Planning Standardization and Automation for Linac-based Single-isocenter Multi-target SRS, September ONLINE

2022 Varian Eclipse 4D Planning and Varian Motion Management, June ONLINE

2022 Radformation QuickCode: Providing Billing Transparency to Your Radiation Oncology Department May ONLINE

2022 Varian AI-Rad Companion Organs RT: Automation in Contouring with AI State-of-the- Art Algorithms, May ONLINE

2022 Radformation Rethinking Pre-Treatment Workflows for Better Outcomes: An Insight Series Webinar, March ONLINE

2022 Varian’s an Integrated Solution to Offline Adaptive Treatment Planning, January

2022 Noridian Signature Requirements, January ONLINE

2021 Varian Medical Systems Halcyon in a Community based facility, December ONLINE

2021 Varian Medical Systems Aria for the Physicist, December ONLINE

2021 Varian Medical Systems Aria for the Radiation Therapist, November ONLINE

2021 ASRT 44th Radiation Therapy Conference, Chicago, IL

2021 Teaching Emotional Intelligence in the Classroom, Chicago, IL

2021 Noridian Radiation Oncology, May ONLINE

2021 Noridian Signature Requirements, May ONLINE

2021 Noridian New Patient vs Established Patient April ONLINE

2021 North Texas Society of Radiation Therapist, ONLINE meeting

2020 VERT Educators Workshop, Vertual Ltd ONLINE meeting

2020 ASRT 43rd Radiation Therapy Conference, Miami, FL October ONLINE

2020 Altus Learn, Turner Talk Special: Bulling- A Cancer within the Department

2020 Altus Learn, Turner Talk Special: Switching Careers- From Clinic to Education

2020 Elekta Advancing Precision RT Medicine Together virtual event Series, June, and July ONLINE

2020 USON MIM Education Series, (April, July) ONLINE

2020 VERTUAL Education Series, 15 classes ONLINE

2020 Radiation Oncology Under Covid 19, Legion Webinar series ONLINE

2020 VERT- How to use the Radiotherapy Introduction Session workbook ONLINE

2020 American Brachytherapy Society Brachy Summit 2020, Big Sky, Montana

2020 Coding Strategies CROWN Seminar Series Session: Radiation Oncology Core Essentials, San Antonio, Texas, January

2020 Coding Strategies CROWN Seminar Series Session: Radiation Oncology Special Procedures & Beyond, San Antonio, Texas, January

2019 2020 CMS Final Rules for Radiation Oncology Billing Revenue Cycle, Inc.

2019 ASRT 42nd Radiation Therapy Conference, Chicago, IL

2019 Elekta Users Meeting, Chicago, IL

2019 Varian Users Meeting, Chicago, IL

2019 VERT Educators Workshop, Vertual Ltd Chicago, IL

2019 Modifier 59, NCCI, and MUE, Noridian Healthcare Solutions and CMS

2018 NTSRT Radiation Therapy Fall Symposium, Dallas, Tx

2018 VERT Educators Workshop, San Antonio, Tx

2018 ASRT 41st Radiation Therapy Conference, San Antonio, Tx

2018 Elekta Users Meeting, San Antonio, Tx

2018 Scientific Presentation workshop, San Antonio, Tx

2018 AAMD 43rd Annual International Meeting, Austin, Tx

2018 Monaco Users meeting, San Antonio, Tx

2017 2017 Elekta User Meeting, San Diego, CA

2017 6th VERT Educators Workshop, San Diego, CA

2017 41st ASRT Radiation Therapy Conference, San Diego, CA

2017 Improved Processes for the Oncology Billing Office, Revenue Cycle, Inc.

2017 Radiation Therapy Reimbursement Update, Revenue Cycle, Inc.

2016 5th VERT Educators Workshop, Boston, MA

2016 Trajecsys Electronic Clinical Education Management System Training

2016 VERT Case studies- The University of Malta Experience

2016 40th ASRT Radiation Therapy Conference, Boston, Ma

2016 VERT Case studies- “Using VERT to Teach the Principles of DIBH”

2016 Reimbursement and Coding for Radiation Oncology Revenue Cycle, Inc.

2015 4th VERT Educators Workshop, San Antonio, TX

2015 39th ASRT Radiation Therapy Conference, San Antonio, TX

Professional Development

2023 Cybersecurity Training, Texas State University, (July)

2022 Deans Seminar and College of Health Professions 50th Anniversary Celebration panel discussing scholarly and research activities (November)

2022 Equal Employment Opportunity & Title IX, Texas State University, “Preventing Harassment and Discrimination” (March)

2021 Deans Seminar “African American Roots and Diabetes Reduction Through Focused

Permeated Learning” (November)

2021 Equal Employment Opportunity & Title IX, Texas State University (Sept)

2021 Cybersecurity Training, Texas State University, (May)

2021 “Mathematics, Data, and Disease”, ONLINE ZOOM (April)

2021 Spring 2021 IPE Faculty Development: Instruction methodologies game

2021 Attended the Faculty-only tour of the library's Alkek One technology centers

2020 Deans Seminar “Machine Learning and Artificial Intelligence: The Future of Healthcare” (November)

2020 Scroll Ceremony and IPE event, (October)

2020 Cybersecurity Training, Texas State University, (May)

2020 Zoom for Faculty and Staff, Texas State University ITAC (March)

2020 Canvas Basics Webinar, Texas State University ITAC (July)

2020 Let’s Do Lunch! A Community of Practice- Tx State Faculty Development (July)

2020 2020 Spring Faculty IPE Faculty Development Event, Online (May)

2019 Equal Employment Opportunity & Title IX, Texas State University

2019 Email Security training, Revenue Cycle Billing IT, Cedar Park, Texas

2019 Compliance Training for HIPPA, security, risk analysis with CCO of RCBilling, Cedar Park, Texas

2018 Tour of the Texas Proton Facility, Irving, TX

2018 Deans Seminar “Cyber-Analytics: Modeling Factors Associated with Healthcare Data Breaches”, Round Rock, TX

2018 Scroll Ceremony and IPE event.

2018 Admission Process meeting with RT faculty, Dr. Sanders, and Janet Bezner

2017 1st Multi-Institutional VERT Research Meeting, Delgado Community College New Orleans, LA

2017 Deans Seminar “The Journey to a Diagnosis: Tools and Tales” De. Mary Elizabeth Parker, STAR Park, San Marcos

2016 Deans Seminar "Respiratory Muscle Testing & Training." Dr. Christopher Russian, St. David’s School of Nursing, Round Rock, Texas

2015 Deans Seminar “Stroke: The Inter-Professional Research Team.” St. David’s School of Nursing, Round Rock, Texas

**US Oncology Corporate Based and Vendor Supported Workshops Pre-employment**

July 2014 Inside-Out Coaching Workshop. This workshop enhanced my problem solving ability when dealing with employees and other staff members.

Aug-2014 Gynecologic cancers and PET/CT Imaging

Jul-2014 Technology That Enhances Consistency & Standardization

Jul- 2014 The Edge: Radiosurgery System as Your Primary Platform: Excellence in a Habit

Jul- 2014 Implementing IMPT on Varian Pro-Beam Proton Therapy System

Jul- 2014 Knowledge Based Planning Model training and Validation

Jul- 2014 Optical Surface Monitoring System for SRS

Jul- 2014 Velocity- seeking knowledge with velocity imaging Informatics

Mar-2014 ICD-10 Boot camp by McKesson Specialty Health

Feb-2014 Non-Invasive Brachytherapy for APBI: A New Perspective

Dec-2013 Proton Therapy Basics and clinical Rational

Dec-2013 Everything you ever Wanted to Know About Health Exchanges

Dec-2013 Public Policy Update

Dec-2013 STAR: Survivorship training and rehabilitation

Dec-2013 Checking in with Implantable APBI Devices: Data, dosimetry and Integration

Dec-2013 Changing Local Regional Treatment Paradigms for Early Stage Breast Ca

Dec-2013 LDCT Lung Screening Program Implementation

Dec-2013 Bringing Evidence-Based Guidelines and Pathways to Radiation Oncologists

Dec-2013 Multi-Disciplinary Lung Tumor Board

Dec-2013 Three Existential Questions Facing Radiation Oncology

Nov-2013 Us Oncology & Elekta Mosaiq Users Meeting

May-2013 Porta-Vision with 4DTC Workshop

May-2013 Clinic Linear Accelerator

May-2013 Clinical Adoption of Brachytherapy for Treating Skin Cancer

Oct-2013 Stereotactic Body Radiotherapy (SBRT) for Prostate Cancer

Oct-2013 HDR Quality Assurance Training

Oct-2013 Oncentra brachytherapy Training Course

Oct-2013 Breast cancer: New Diagnostic and Radiation Therapy Options

Jan-2013 Motion Management in Lung Cancer Treatment

Jan-2013 Radiation Protection in Pediatric Imaging

Jan-2013 Imaging Correctional Facility Patients

Jan-2013 Radiosurgery for Extra-Cranial Lesions

Nov-2012 Clinic Linear Accelerator

Nov-2012 Update on Proton Therapy: Assessing the Value of High Technology

Nov-2012 Update on the Role of RT for Hodgkin’s and Non-Hodgkin’s Lymphoma

Nov-2012 Clinical Skin Cancer and HDR Brachytherapy

Nov-2012 Lung Cancer- Mock Tumor Board

Nov-2012 Soft Tissue Sarcoma of the Extremities and Retroperitoneal- Standards of Care

Nov-2012 Breast Lymphatic Contouring Practicum

Sept-2012 10th Annual Us Oncology Radiation Oncology Meeting

Nov-2011 Clinical Orientation for the Savi Applicator

Nov-2011 Anal-rectal Cancer

Nov-2011 Gynecological Cancers

Nov-2011 Stereo Ablative Radiotherapy for TX of Primary Care and Metastases

Nov-2011 Head and Neck Cancer

Nov-2011 Future of Radiation Therapy in Breast Cancer Treatment

Oct-2011 Us Oncology Clinical Advisory Council Meeting

Sept-2010 Hypo Fractionated Treatment of Breast

Sept-2010 (Indirect) Redistribution of Heath: Implications of Cancer Care

Sept-2010 Technology in Radiation Oncology

Sept-2010 Overview of Brachytherapy

Sept-2010 Trends in Gastrointestinal Oncology

Sept- 2010 (Indirect) Practice Accreditation in Radiation Oncology

Mar- 2010 Stereotactic Radiosurgery

Mar- 2010 Translational Advances in Brachytherapy

Mar- 2010 Protons and Spot Scanning Beam Advances in Proton Therapy

Mar- 2010 Current Practices in the QA of Prostate Brachytherapy

Mar- 2010 Electron Conformal Therapy

**III. SCHOLARLY/CREATIVE**

1. **Works in Print (including works accepted, forthcoming, in press)**

Chapters in Books:

2017 Chapter 19 Principles and Practice of Proton Therapy

Other Works in Print:

2019 Health Scholar Showcase, Texas State University Health Professions Poster:

**Interprofessional Education: A Mini Course IPE Case Study for Radiation Therapy and Health Information Management Majors**

2019 Health Scholar Showcase, Texas State University Health Professions Poster:

**Exploring the Potential of Virtual Reality in Radiation Therapy Education**

2017 Health Scholar Showcase, Texas State University Health Professions Poster:

**Incorporating Simulation and Virtual Reality into the Education of**

**Health Professionals**

**B. Works not in Print**

Lectures, and Presentations:

Oct 2018 Speaker at International ASRT meeting, San Antonio, TX

Oct 2018 Speaker at National NTSRT meeting, Irving, TX

2015-present Biannual “Radiation 101 Billing” Revenue Cycle Billing

2015-present Biannual “Radiation Specialty Billing” Revenue Cycle Billing

1. **Virtual Reality Education System Lab Presentations at Texas State University Requested by Program Chair**

January 29, 2020, Virtual Education System Upgrade Workshop for RT faculty Version 3, included guest speakers Urvina Shah and Angela Williams for a VERT sponsored webinar.

February 20, 2019 Virtual Education System Upgrade Workshop for RT faculty including guest speaker, product specialist, Jan Antons via WebEx

April 26, 2018 Tour of Radiation Technology for International Students and Faculty

Nov 15, 2017 Conducted presentation/demonstration for Carlos Solis, VP of Instructional Technologies. VERTUAL, MOSAIQ AND MONACO

July 27, 2017 Conducted presentation/demonstration of VERT application for Provost.

Oct 25, 2016 Conducted presentation/demonstration for TX State Radiation Meeting “Mosaiq and Vert” with Dr. Walt Horton, VP Research and Federal Relations, and Dr. Melinda Villagran, Director of Translational Health Research Initiative

Mar 2016 Coordinated and Assisted with Texas State Classroom Open House. Guest Jan Antons, Senior Radiotherapy Product Specialist: Vertual Ltd joined in team teaching using and demonstrating the new VERT application.

Jan 12, 2016 Virtual lab and VERT WebEx demo for Carlos Solis, VP of Instructional

Technologies. Discussion of Academic Computing Grant Proposal Intent.

1. **Invited Talks to the Professional Community**

2020 Exhibitor: Brachytherapy Summit 2020, American Brachytherapy Society Exhibitor for Revenue Cycle Coding Strategies and Revenue Cycle Billing. (February 13-17)

2019 Presented at the Texas State Health Science Spring Interprofessional Spring event for faculty: *A Mini Course IPE Case Study for Radiation Therapy and Health Information Management Students*

2019 Presented poster at the Texas State Health Scholar Showcase, **Exploring the Potential of Virtual Reality in Radiation Therapy Education**

2018 NTSRT Exploring *the Potential of Virtual Reality in Radiation Therapy Education*

2018 ASRT *Panel Discussion: A Great Role Model for Virtual Education Leadership in Radiation Therapy*

2017 Presented poster at the Texas State Health Scholar Showcase, **Incorporating Simulation and Virtual Reality into the Education of Health Professionals**

2017 Presented employment opportunity for Revenue Cycle Billing to the Health I Information Management graduating class at Texas State University.

2014 Conducted presentation guiding a successful radioactive material license inspection for the Texas Department of State Health Services.

2005 Conducted presentation for Varian Medical High Dose Rate

Brachytherapy Meetings held in Miami, Florida

2003 Conducted presentation for Varian Medical High Dose Rate

Brachytherapy Meetings held in Las Vegas, Nevada and Austin, Texas

2003 Conducted presentation for Us Oncology Corporate, physicians and attendees.

“How to Implement an Electronic Medical Record”

2002 Conducted presentation for Us Oncology Corporate, physicians and attendees.

“Mammosite Partial Breast HDR Treatment”

2000 Conducted presentation for Varian Medical High Dose Rate

Brachytherapy Meetings held in Las Vegas, Nevada

1999 Conducted presentation for Varian Medical High Dose Rate

Brachytherapy Meetings held in Brownsville, Texas

1998 Conducted presentation for Varian Medical High Dose Rate

Brachytherapy Meetings held in, Austin, Texas

**E. Consultancies:**

2023 I was invited and accepted to participate as one of four sites worldwide, to be on the Vertual customer advisory board. This new strategy will allow me to be a part of the next software release with the purpose to assist with the specification and implementation of new features for VERT 8.  This project began late November 2023 to late August 2024. Advisory board customer sites receive a 10% discount on their one-year support contract renewal price as compensation for the work undertaken and acknowledgement on social media as part of the VERT 8 release announcements.

2023 Conducted a medical record and billing review for Radiation Therapy centers in Illinois, Virgina and Nebraska. Provided remote training and a report for documentation.

2022 Conducted a medical record review for a Radiation Therapy center in California. Provided onsite training and a report for documentation.

2017 I went to Maryland with two other Revenue Cycle employees to evaluate 2 radiation therapy centers for possible takeover of management responsibilities.

2017 Conducted a medical record review for a Proton Radiation Therapy center in Oklahoma. Provided onsite training and a report for documentation.

2015 Conducted/Developed 2-week Dosimetry/Radiation Workshop Using Prowess

2015 Development of the Texas State Virtual Linear Accelerator and Treatment Room

I have participated in planning meetings with Texas State University and the contracted software development vendor, Worldviz, serving as an external consultant for its development.

2005 Medtec Medical Equipment and Applications Radiation Therapy Advisory Board

2004 Expert Witness for Law firm representing a Radiation Oncology center in Hospital.

1. **Workshops: (Delivered)**

2023 Conducted Radiation Therapy Billing training for Revenue Cycle Billing

Employees. (2D, 3D, IMRT, SRS, Proton and Brachytherapy charges and documentation. (April, June, Oct -8 hours each)

2022 Conducted Radiation Therapy Billing training for Revenue Cycle Billing

Employees. (2D, 3D, IMRT, SRS, Proton and Brachytherapy charges and documentation. (March, June, July, Oct, -8 hours each)

2021 Conducted Radiation Therapy Billing training for Revenue Cycle Billing

Employees. (2D, 3D, IMRT, SRS, Proton and Brachytherapy charges and documentation. (March, May, July, Sept, Oct, Dec -8 hours each)

2020 Conducted Radiation Therapy Billing training for Revenue Cycle Billing

Employees. (2D, 3D, IMRT, SRS, Proton and Brachytherapy charges and documentation. (July, August, September, November; 8 hours each)

2020 Conducted Radiation Therapy Charge Entry Training course for codes, modifiers, edits, bundling, and billing rules for profession. (November)

2019 Conducted Radiation Therapy Billing training for Revenue Cycle Billing

Employees. (2D, 3D, IMRT, SRS, Proton and Brachytherapy charges and documentation. (March, July, November; 8 hours each)

2018 Conducted Radiation Therapy Billing training for Revenue Cycle Billing

Employees. (2D, 3D, IMRT, SRS, Proton and Brachytherapy charges and documentation.

2017 Conducted Radiation Therapy Billing training for Revenue Cycle Billing

Employees. (2D, 3D, IMRT, SRS, Proton and Brachytherapy charges and documentation.

2016 Coordinated and Assisted with Texas State Classroom Open House. Guest Jan

Antons, Senior Radiotherapy Product Specialist form Vertual Ltd joined in team.

teaching using and demonstrating the new VERT application.

2010 Conducted technology update workshop for Sayers Region administrator’s in

Austin, TX. Texas Oncology In-service.

2007 Conducted Mosiaq training for Mosiaq “Superusers” in Denver, Co. for Radiation

Pathway implementation. US Oncology Corporate In-service.

2006 Conducted Mosiaq training to Mosiaq “Superusers” in Houston, TX. Corporate

Headquarters for Radiation Pathway implementation. US Oncology Corporate In

service.

2002 Conducted Electronic Medical Record training in Houston, TX. Corporate

Headquarters for Radiation Pathway implementation. US Oncology Corporate In

service.

2001 Conducted the MammoSite Radiation Therapy System for Breast Cancer Treatment

training in Houston, TX. US Oncology Corporate In-service.

1998 Conducted computerized axial tomography virtual simulation

training for Toshiba Application Specialist students

1997 Conducted computerized axial tomography virtual simulation

training for Toshiba Application Specialist students

1997 Conducted CT Simulation and Treatment Planning training and new hire orientation for Texas Oncology physicists

1996 Conducted computerized axial tomography virtual simulation

training for Toshiba Application Specialist students

G. Grants and Contracts

1. Funded External Grants and Contracts:

2. Submitted, but not Funded, External Grants and Contracts:

3. Funded Internal Grants and Contracts:

4. Submitted, but not Funded, Internal Grants and Contracts:

**IV. SERVICE**

**A. Institutional**

**1. University:**

2017 Secured Gift and Kind donation from Elekta Corporate Giving Committee for 30 Monaco software licenses and training support from their applications team.

2017 Secured Gift and Kind donation from Elekta Corporate Giving Committee for 21 Mosaiq Electronic Medical Record cloud based software licenses and training support from their applications team.

**2. College:**

2023 Cookies and Cocoa with Kelly (November 29)

2023 CHP Dean Candidate Open Meetings for three (3)

2023 Fall Gathering Faculty Development (September 8)

2023 Scroll Ceremony, Dell Diamond (September)

2023 Spring CHP Faculty IPE Event (May 2)

2022 Round Rock Campus President’s Holiday Open House, (November 30th)

2022 Round Rock Campus Vendor Fair & HUB Showcase, (November 9th)

2022 Round Rock Campus Cookout, (October 4th)

2022 Round Rock Campus Meet and Greet with Dr. Kelly Damphousse (July)

2021 Round Rock Campus Open House, my role with to share personal experiences, provide

demonstrations in the VERT lab and answer questions about the program and career. (Sept)

2021 Spring 2021 IPE Faculty Development (May) I volunteered to keep score during the various

instructional methodologies for the IPE games.

2021 I was interviewed for an article in the Hillview Magazine, provided a tour and demo of our

VERT system and then proofread to provide suggestions and corrections prior to publishing.

<https://hillviews.txstate.edu/issues/2021/summer-issue/fighting-the-war-on-cancer>

2020 IPE Poverty Simulation with Health Science Students, my role was to pretend I was a Social Service Office Receptionist. Round Rock Campus (March)

2019 Secured Gift and Kind donation appraised value of $27,679.60 from Klarity Medical Products, LLC consisting of aquaplast masks for IMRT and SRS, U- frames, Q-fix bos board, SBRT immobilization board and various accessories.

2019 Chair Summative Review Committee for Radiation Therapy Department Chair

2018 I was selected to be interviewed by Vice President Joe Biden at the Cancer Summit in Washington, DC via shared studios. I was interviewed by his team and participated with camera crews, organizers and many others in Washington attending the Summit.

2018 Annual Health Professions Career Fair

2018 Secured Gift and Kind donation from clarity medical Products, LLC reusable AccuCushions custom head rests for training.

2018 Secured Gift and Kind donation from Klarity Medical Products, LLC Thermoplastic Immobilization masks for training.

2018 Secured Gift and Kind donation from Klarity Medical Products, LLC for Dry Heat Oven for thermoplastics.

2017 Secured Gift and Kind donation from Bionix Radiation Therapy Medical Products, Thermoplastic Immobilization masks for training.

2016 Annual Health Professions Career Fair

**3. Program/Department/School:**

2023 Radiation Therapy Department Christmas Party for all (December 4)

2023 CAMCO- Cancer Awareness Day- Cancer Awareness Day (November)

2023 Assisted with Radiation Therapy Pinning Ceremony followed by staff meeting, May

2022 CAMCO- Cancer Awareness Day- Cancer Awareness Day (November)

2022 Provided a 3-hour tour for the Junior and Senior RT students of the ASTRO vendor floor. I organized demos and took them to the major vendors. This is an important and popular part of the ASTRO Annual Meeting each year. Its where key decision-makers explore the latest products and services to improve their practices. This is an opportunity for attendees to network with industry partners, view product demonstrations and ask questions about new products and trends on the horizon. ASTRO is the premier radiation oncology society in the world, with more than 10,000 members who specialize in treating patients with radiation therapies.

2022 I was the announcer of the student names for the Pinning Ceremony for the Graduating Class of 2022. I researched the pronunciation, practiced saying their name and performed at the event. I wanted to say their name correctly as a sign of respect for our graduating students and their family.

2021 2020-011RRC Radiation Therapy Move & Renovation complete for most of department

space. Coordinate packing of San Marcos offices and two classrooms which had 20 computers. Label, lead students and staff for efficient process. Unpack, organize, and coordinate the set-up of office space for AVERY 353 and Avery 113 VERT lab/classroom and closet. Organization, computer interfaces, communication to inform ITAC of radiation systems, uses and function and provide vendor specific technology details to other team members.

2021 Faculty Team meeting to discuss our Canvas tricks, share information and cover

technology updates with new and existing faculty. (July)

2021 Be The Match Student Orientation allowed faculty and students to gather, review and

listen to guest speaker Mr. Ricardo Soliz. (Aug)

2020 2020-011RRC Radiation Therapy Move & Renovation committee to perform walk through of space, define and review scope of work for project, review and revise architectural drawings and provide vendor specific technology details to other team members.

2020 Texas State Radiation Therapy Program Admissions Committee, (March)

2020 Coordination and communication with technology vendor Elekta to ensure security, faculty, and student profiles for cloud access of Mosaiq electronic medical record are created and maintained.

2020 Elekta moved our MOSAIQ database to a new URL for cloud access. I communicated to all involved and scheduled this on a Friday night to ensure the application down time was acceptable. I performed testing on the database following the upgrade and completed the paperwork for Elekta. I then worked with all students to configure the Citrix application on their personal devices, as well as all classroom lab computers. (October)

2019 Coordination and communication with technology vendor Elekta to ensure security, faculty, and student profiles for cloud access of Mosaiq electronic medical record are created and maintained.

2018 Continue working with Vendor to ensure access is granted and configured for faculty and students.

2019 CAMCO- Cancer Awareness Day- Cancer Awareness Day (November)

2019 14TH Undergraduate Research Conference for student posters (April)

2019 Texas State Radiation Therapy Program Admissions Committee (March)

2019 Proton Informational meeting with Gary Barlow and Be the Match (January)

2018 CAMCO- Cancer Awareness Day- Cancer Awareness Day (November)

2018 13TH Undergraduate Research Conference for students (April)

2018 Texas State Radiation Therapy Program Admissions Committee (March)

2017 CAMCO- Cancer Awareness Day- Cancer Awareness Day (November)

2017 Radiation Therapy Department Annual VERT refresher (July)

2017 Texas State Radiation Therapy Program Admissions Committee (March)

2016 CAMCO- Cancer Awareness Day- Cancer Awareness Day

2016 Radiation Therapy Group Mixer - helped organize, transport items, set up, take down

2016 St. David’s Bone Marrow Transplant Unit tour

2016 Coordinator Coordinated VERT Introduction web-ex with application specialist to the Radiation Therapy Department staff

2016 Coordinated and supervised the installation of the VERT screen, computer, and projector with the vendor engineer/installer. Insured application was acceptable prior to turnover.

2005 – 2016 Texas State Radiation Therapy Program Research Seminar

2002 – 2014 Texas State Radiation Therapy Program Clinical Supervisor's Meetings

1. – 2005 Texas State Radiation Therapy Program Admissions Committee
2. **Professional:**

1989 to Present American Society of Radiologic Technologists

Member 229120

2018-2019 Golden Key International Honour Society for Midwestern State University

2017-2018 Planning Committee member for the June 2018 American Association of Medical Dosimetrist national meeting. I reviewed abstracts to select speakers and offer information about Austin. I introduced speakers and assisted with attended attendance.

2001 to 2019 American Association of Medical Dosimetrists

Member 17938034

2012 to 2014 Central Texas MOSAIQ POD leader. The “pod” concept involves four clinical facilities to work collaboratively to instill a “pod” of progressive, collaborative oncology practices. I organized conference calls between the sites, made decisions for implementation of our electronic medical record, managed employee security rights, and created and maintained an email distribution list to enhance communication.

1997 to 2014 Coordinator for the Texas Oncology-South Austin X-ray Licensure Inspection Site

visits by the Texas Department of State Health Services.

1997 to 2014 Coordinator for the Texas Oncology-South Austin Radioactive Materials License Inspection Site Visits by the Texas Department of Health Services.

2012 to 2014 Coordinator for the Texas Oncology-San Marcos X-ray License Inspection site

Visits by the Texas Department of Health Services.

1. **Committees:**

2021-2023 VERT Physics Project committee which is a group of VERT users across the United States who are creating quality assurance competencies for RT students.

2020-present Student Education Development Advisory Committee created by Revenue Cycle Coding Strategies to develop webinar series for radiation therapy student across the United States to prepare for registry questions regarding billing, documentation, coding

2017 to 2018 AAMD Conference Planning committee for Austin 2018 meeting

2012 to 2014 The Texas Oncology Central Texas CT Protocol Quality Assurance Committee

1997 to 2014 The Radiation Safety Committee for Texas Oncology

1. to 2014 The Quality Control Committee for Texas Oncology
2. **Community:**

November 2023 Participate Leukemia & Lymphoma Light the Night, Austin

October 2023 Volunteer Scare for A Cure, Nonprofit for Breast Cancer Research

October 2023 Attend with Department recognition, Lone Star Circle of Life Bike Tour Stop and talk

October 2023 Attend with Support for Radiating Hope and ASRT Foundation BASH

2021 to present Parent Volunteer for Bowie High School Star Dancers

2018 to present Volunteer Health Alliance for Austin Musicians Volunteer

2014 to present Volunteer Austin Republican Women member

2021 to 2022 Parent Volunteer for Bowie High School Wrestling team

2017 to 2020 Republican Precinct Chair for District 302

2017 to 2020 Stroke and Turn Official for Capital City Swimming Summer League

2017 to 2020 Girl Scouts of Central Texas- Adult member troop 325

October 14, 2018 Girlscout Let’s Go! 1- Out & About Training

October 2018 Girlscout Let’s Go! 2- Fire, food, and Fun! Training

October 2018 Girlscout Let’s Go! 3- Outdoor Skills Training

September 2018 TCRP Precinct Chair Training

September 2018 Race for a Cure 5K run

August 2018 Leukemia & Lymphoma Kickoff Luncheon for Light the Night

November 2018 Light the Night, Leukemia & Lymphoma event

May 9, 2018 Stroke and Turn Official Training

May 4, 2018 Health Alliance for Austin Musicians Training for Volunteering

April 28, 2018 Troop Packing Party at Camp Mabry

April 2018 Relay for Life team member and attended the event

March 2018 5K run to fight Diabetes

Nov 2017 Troop Packing Event to organize and fill 58 boxes to send to military in Afghanistan and Africa.

May 2017 Helped organize event with speaker at the Marriot downtown Austin to raise money to support election of political candidates.

2017 3rd Vice President- Fundraising for Austin Republican Women

2016 6th Vice President- Legislative for Austin Republican Women

2016 Austin Light the Night Walk- Leukemia & Lymphoma Society

2016-2018 Relay 4 Life- American Cancer Society

2012 to 2016 Girl Scouts of Central Texas- Adult member troop 126

2010-2017 Boy Scouts of America- Adult Member Pack 82, Troop 256

2000 to 2014 Wonders and Worries (Tours and teaching) Austin, TX, United States

1997 to 2014 American Cancer Society (Tours and teaching) Austin, TX, United States

1993 to 2018 The American Cancer Center Rely for Life

1. **Service Honors and Awards:**

2021 Texas State University/College Achievement Award for Excellence in Service

2018 Mid-Western State University / The National Society of Collegiate Scholars

2013 The US Oncology / Texas Oncology 20-year plaque, pin with diamonds and watch

2008 The US Oncology / Texas Oncology 15-year plaque, pin with diamond and watch

2004 The US Oncology / Texas Oncology 10-year sapphire and silver pin