TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Nathaniel Haas Title: Lecturer

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/ Dissertation*
MS	**2025**	**University of Toledo**	**Medical Physics**	

C. University Experience

Lecturer, Radiation Therapy Program—RTT 4330 Quality Assurance—6/1/26-present

D. Relevant Professional Experience

Medical Physics Residency, Texas Oncology, Round Rock, Texas
 Machine QA (daily, monthly, annual, and patient specific IMRT) on linear accelerators and HDR afterloader
 Contouring on simulation CTs
 Create treatment plans (IMRT, 3D, and Brachytherapy) in Eclipse and Oncentra
 Custom bolus creation
 End to end testing
 Clinical Projects (Afterloader commissioning, Multimet Winston-Lutz Phantom testing)

Clinical Experience During Graduate Degree, University of Toledo, Toledo, Ohio
 Assisted in machine QA (daily, monthly, annual, and patient specific) on linear accelerators
 Assisted in QA on CT simulator
 Created organ contours
 Created treatment plans in Raystation (IMRT & 3D)
 Chart Checks

Medical Physics Undergraduate Internship, University of Florida, Gainesville, Florida
 Shadowed imaging technologist during patient scans (X-ray, MRI, ultrasound, CT, SPECT, and fluoroscopy)
 Shadowed physics resident performing machine QA
 Shadowed PhD candidates during fluoroscopy research
 Provided weekly written reports on my experience
 Presented experience to medical physics faculty at the end of the internship

Training Deep Learning Algorithm to Contour the Pancreas on MRIs
 Contoured each pancreas on MRI
 Submitted contour to learning algorithm
 Reviewed the algorithm's interpretation of the pancreas contour
 Corrected the AI contour and resubmitted it to the learning algorithm

Quality Assurance on Freesurfer Brain MRIs
 Assessed T1 MRIs of research subjects in Freesurfer
 Determined proper delineation of grey and white matter on scans
 Ensured skull was properly stripped from images

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

ABR Part 1
Texas Medical Board Temporary Medical Physics License

II. TEACHING

A. Teaching Honors and Awards:

B. Courses Taught:

RTT 4330 Quality Assurance

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

D. Courses Prepared and Curriculum Development:

E. Teaching Grants and Contracts

1. Funded External Teaching Grants and Contracts:

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

3. Funded Internal Teaching Grants and Contracts:

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

F. Other:

G. Teaching Professional Development Activities Attended

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

e. Creative Books:

2. Articles:

a. Refereed Journal Articles:

b. Non-refereed Articles:

3. Conference Proceedings:

a. Refereed Conference Proceedings:

b. Non-refereed:

4. Abstracts:

5. Reports:

6. Book Reviews:

7. Essays:

8. Poems:

9. Short Stories:

10. Other Works in Print:

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

2. Invited Talks, Lectures, and Presentations:

The Effects of Patient Training on Prostate Cancer Patients Having Full Bladders
 Held education sessions with patients prior to treatment to emphasize the benefits of attending treatment with a full bladder
 Held weekly meetings with patients over the course of treatment to review their CBCTs from treatment to assess bladder volume and develop strategies to attend treatment with a full bladder
 Contoured patient bladders in sim CTs and CBCTs to assess effect of education sessions on bladder volume
 Submitted as an online poster for 2025 AAPM National meeting

3. Consultancies:

4. Workshops:

5. Other Works not in Print:

a. Works "submitted" or "under review":

b. Works "in progress":

c. Other Works Not in Print:

C. Scholarly / Creative 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:

D. Scholarly / Creative Fellowships, Awards, Honors:

E. Scholarly / Creative Professional Development Activities Attended:

F. Media Recognition:

IV. SERVICE

A. Institutional

1. University:

2. College:

3. Department/School:

B. Professional:

C. Community:

D. Organization Memberships:

E. Service Honors and Awards:

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts:

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

3. Funded Internal Service Grants and Contracts:

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

G. Service Professional Development Activities Attended: