

Madison Burgdolt M.S.

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EDUCATION

CAMPEP accredited Master of Science - Medical Physics
Cleveland State University - Cleveland, OH

2019 - 2021

Bachelor of Science - Physics
University of Akron, Ohio

2015-2019

CLINICAL EXPERIENCE

UPMC Hillman Cancer Center - Farrell, PA

January 2024-Present

CARTI Cancer Center - Little Rock, AR

Medical Physics Resident
Medical Physics Assistant

December 2021- Decemeber 2023
June2021-December 2021

Machines

Varian Truebeam Linear Accelerator: *Performed monthly, annual, and patient specific QA*
Varian Clinac2100 Linear Accelerator with BrainLab: *Performed monthly, annual, and patient specific QA*
Varian VitalBeam: *Assisted with commissioning*
Elekta Nucletron HDR Afterloader: *Performed Daily QA*
Varian Bravos HDR Afterloader: *Performed Daily and Monthly QA*
Phillips Brilliance Big Bore CT: *Performed daily, monthly, and annual QA, TPS transfer*
Siemens SOMATOM CT: *Performed daily, monthly, and annual QA*
Accuray CyberKnife: *Assisted with commissioning, Performed daily and monthly QA, and patient specific QA*

Software

Aria: *post treatment and weekly chart checks*
Eclipse: 3D, IMRT/VMAT, and SRS planning
Varian HDR BrachyVision: *planning Vaginal Cylinder and T&O*
MOSAIC: *Completed post treatment and weekly chart checks*
DoseLab Pro: *Analyzed LVR, VMAT/Dynamic MLC, and MLC strip tests*
MIM: *Performed SRS image fusions for planning CT with registration of MRI*
Varian Identify: *Assisted with daily and monthly QA for Truebeam and CT*
ClearCalc: *Performed secondary MU calculation checks*
SunNuclear SunCheck: *Patient and Machine QA*
Adaptiiv 3D Bolus: *Creating and printing patient-specific bolus*

The Cleveland Clinic Foundation – Cleveland, OH

2020 - 2021

Machines

Elekta Leksell Gamma Knife Icon: *Performed spatial shift study of all frame-based cases treated over the course of a year, as well as observed daily workflow and treatments of frame and mask cases*

Software

Leksell GammaPlan: *Recorded translational and rotational shifts of frame-based patients*

CLINICAL RESEARCH

The Cleveland Clinic Foundation – Cleveland, OH

2020 - 2021

“A Novel Dose Volume Histogram Method to Improve Dose Delivery for Frame-Based Stereotactic Radiosurgery Using CBCT Image Guidance.”
With Dr. Gennady Neyman and Dr. Samuel Chao (Abstract submitted for AAMP 2023 meeting)

Work EXPERIENCE

Cleveland State University - *Teaching Assistant*

2019 - 2021

- Teaching calculus-based undergraduate physics labs

MEMBERSHIPS

American Association of Physicists in Medicine (AAPM)

South West Chapter

2020 - 2023

Pennsylvania-Ohio- West Virginia Chapter

2024- Present

COMPUTER EXPERIENCE

Programming Proficiency

Beginner: Matlab, MS Office, MathCAD