

Brayden Manning

Physicist - Radiation Oncology

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SUMMARY

Enthusiastic physicist with a Master's in Medical Physics, excited about advancing radiation oncology. Extensive experience in image-guided therapies and quality assurance methodologies. Adept at collaborating within multidisciplinary teams to improve patient outcomes through innovative treatment planning. Proficient in using advanced equipment such as TrueBeam systems and HDR brachytherapy. Familiar with medical physics software like Aria and Eclipse for effective data analysis and research management. Eager to contribute knowledge and skills in an environment focused on collaboration, continuous learning, and exceptional patient care.

EXPERIENCE

Graduate Research Assistant

University Research Lab 📅 August 2024 - Present 📍 Sioux Falls, SD

Supporting cutting-edge research in modern image-guided radiation therapies focusing on quality improvement for patient treatment plans.

- Conducted extensive research to enhance image-guided treatment planning for optimal patient care.
- Collaborated effectively with faculty and peers on protocols for HDR brachytherapy focusing on quality assurance.
- Utilized comprehensive software tools including Aria and Eclipse, facilitating detailed data analysis for improved research findings.
- Managed simulations with GE Optima CT scanner, optimizing techniques in radiation delivery for better accuracy.
- Participated actively in departmental meetings to share insights and present innovative clinical solutions.
- Trained junior researchers on best practices in radiation safety and physics protocols, enhancing team expertise.

Radiation Physics Intern

Lakeside Medical Center 📅 June 2023 - July 2024 📍 Sioux Falls, SD

Gained valuable hands-on experience working alongside certified physicists on quality assurance testing and clinical trial support.

- Assisted in routine quality assurance testing of radiation delivery systems ensuring compliance with all regulatory standards.
- Supported data collection for clinical trials involving ground-breaking radiation therapy techniques to improve efficacy.
- Engaged in operational training with TrueBeam systems to gain thorough understanding of equipment functionality.
- Collaborated closely with dosimetrists to enhance treatment planning based on individual patient factors.
- Contributed to team discussions focused on optimizing treatment approaches while prioritizing patient safety measures.
- Documented and presented research advancements in radiation oncology, promoting interdisciplinary communication.

LEADERSHIP & AWARDS

- Dean's List (2024, 2025)
- First Prize at the Regional Student Research Conference (2025)

EDUCATION

Master's Degree in Medical Physics

University of Sioux Falls 🎓 GPA: 3.8 📅 2026 📍 Sioux Falls, SD

Coursework: Radiation Safety, Treatment Planning, Quality Assurance, Research Methodologies

CERTIFICATIONS

- Board eligibility for Radiation Oncology Physics 📅 2026

TECHNICAL SKILLS

- **Medical Physics Software:** Aria, Eclipse, SunCHECK
- **Radiation Therapy Equipment:** TrueBeam, TomoTherapy Hi-Art, GE Optima CT
- **Quality Assurance Tools:** ProMetric, QA Sonics, Linac QA System
- **Data Analysis Techniques:** Statistical Modeling, Simulation, Mapping
- **Research Methodologies:** Clinical Trials, Peer-reviewed Studies, Regulatory Compliance
- **Presentation Tools:** PowerPoint, Prezi, Google Slides
- **Communication Platforms:** Zoom, Microsoft Teams, Slack
- **Documentation Standards:** IEEE, APA Style, Chicago Manual
- **Interdisciplinary Collaboration:** Team Meetings, Cooperative Projects, Problem-solving Sessions
- **Patient Care Protocols:** Radiation Dosimetry, Patient Safety Measures, Consultation Practices

SKILLS

- Image-Guided Therapy
- Treatment Planning
- Quality Assurance
- Radiation Safety
- Medical Physics Software
- Research Methodologies

PROFESSIONAL AFFILIATIONS

- Member of the Medical Physics Student Association
- Volunteer tutor for undergraduate physics students

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST