

Fellowship Profile

IAEA PROGRAMS
AT ARGONNE NATIONAL LABORATORY

Dosimetry and Medical Physics

TRAINING SUMMARY

I am honored to have recently completed my fellowship at the Emory Proton Therapy Center in Atlanta, USA. I was immersed in a high-volume, collaborative environment. By participating in peer review sessions, chart rounds, and academic meetings, I witnessed firsthand how multidisciplinary teams navigate the complexities of proton therapy including physicist and RTTs team. Beyond the clinical observations, I gained critical technical expertise in motion mitigation, which is essential for treating moving targets. I focused on:

- Precision Tools: 4D Robust optimization, Breath-hold (SDX), abdominal compression, and gating techniques.
- Complex Protocols: Treatment plan considerations and robust evaluation for challenging cases, including Craniospinal Irradiation (CSI) and the highly delicate setting of re-irradiation.



WHATS NEXT?

My short-term goal is to implement and share advanced proton treatment protocols at Chulalongkorn University. I plan to enhance clinical outcomes through robust evaluation techniques, transfer cutting-edge knowledge to residents and colleagues, and standardize motion management strategies to improve the accuracy and safety of treating tumors affected by respiratory movement.



"By combining the rigorous training from Emory with our dedication at Chulalongkorn university and King Chulalongkorn Memorial Hospital, we are not just treating the cancer – we are defining the next standard of care for our patients."

Danita Kannarunimit- Thailand

November 3rd to November 26th 2025

**Hosted by: Emory University- Proton Therapy
Center**