



Image Analysis of Additive Manufactured Polar Direct Drive-Wetted Foam Capsules for Inertial Fusion Energy

Olive Colfelt, Wichita State University ; G. Elijah Kemp, Lawrence Livermore National Laboratory

ABOUT ME

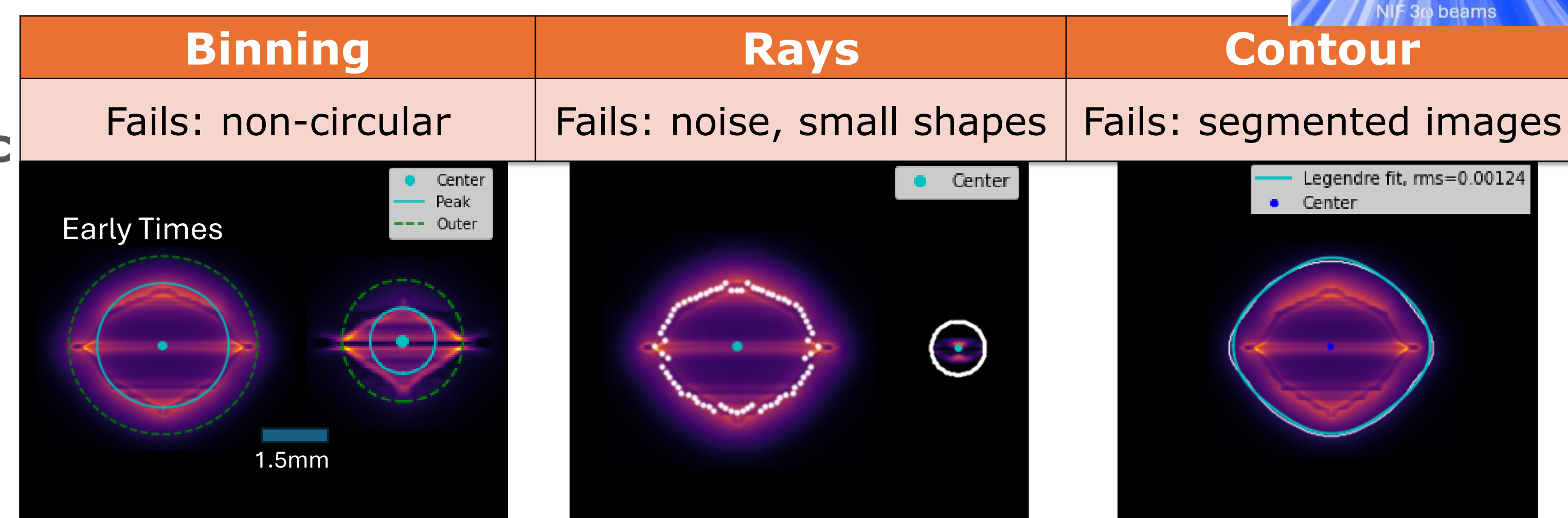
- **Majors:** Physics & Chemistry
- **Minors:** Mathematics, University Honors, Japanese
- **Career Goals:** I hope to do research full time. In my lifetime I hope to use nuclear fusion as an affordable, reliable, green energy source for the world.
- **Interests:** Travel, Animals, Video Games, Running, Hiking, Nature, Piano, Movies
- **Why LLNL?:** I chose to apply to LLNL after I learned about Nuclear Physics in my courses. I was captivated by the possibilities to apply physics for the benefit of the world through NIF.



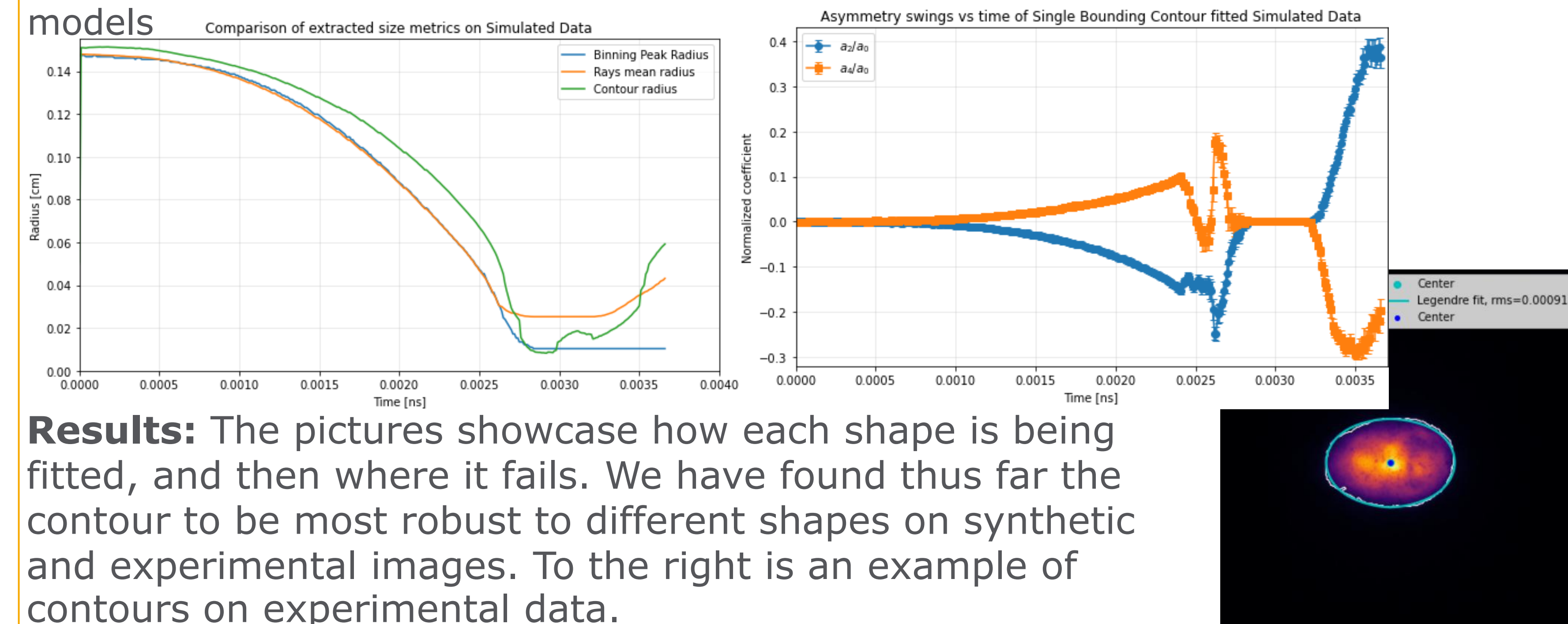
SUMMER RESEARCH

Abstract: The goal of this project is to analyze synthetic and experimental images of additive-manufactured Polar Direct Drive wetted foam capsules using code to extract relevant information and compare simulations to data. The ultimate objective is to benchmark experimental results to simulations for laser coupling and hotspot shape for use in Inertial Confinement Fusion.

Methods Used on Synthetic Data:



All Data from 2D RZ HYDRA x-ray self-emission models



LLF AWARD

- The John S. Foster Undergraduate Fellowship has allowed me to live in Livermore for the summer.
- The fellowship has allowed me to pursue my passions worry free and created a space to network for my future in a field I love.
- I have also solidified my passions, to guide me in my graduate school selection.



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