

## JINA-CEE Pipeline

The variety of programs targeted at different ages of youth has developed a “JINA-CEE Pipeline” for students to progress through different levels as they gain experience. After recognizing this, we are actively trying to cultivate the pipeline and keep in touch with participants in between programs when possible. Many of our student participants stay involved with JINA-CEE through more than one program or return in new roles.

The Art 2 Science Camp is in its 6th year and former campers are now serving as Junior (teen) Counselors. Many counselors are there for the leadership experience, but some have a strong interest in physics and have gone on to attend PAN. Former PAN students have also returned to serve as counselors.

Former PAN teachers are continuously recommending PAN to their highly interested students. They are also encouraged to contact us for guest speakers (often virtual) and resources. PAN is “fed” by lab tours, scout badge workshops, the Math, Science and Technology Program (MST at MSU) and the Art 2 Science Camp. For example, 3 of the 2016 PAN students have taken the course on nuclear astrophysics through the MST program, and this is common from year to year. More recently, we’ve been able to attract PAN students to attend JINA-CEE institutions for their undergraduate studies and a few are already doing research in nuclear astrophysics. We sometimes also recruit local PAN graduates to participate in outreach efforts, including mentoring younger students, or even serving as PAN counselors. Some students have been involved with JINA outreach programs for over half of their academic career and we hope to increase, extend and strengthen those relationships.

