

# Nikolas Logan



**Graduate Institution:** Princeton

**Location:** Princeton, NJ

**Graduate Discipline:** Plasma Physics

**Hometown:** Santa Barbara, CA

## **Research Interests:**

*My interests are centered on fusion research efforts. I am currently working with the magnetic diagnostics and controls on the Lithium Tokamak eXperiment (LTX) at the Princeton Plasma physics Laboratory. I have also studied rotating resistive wall modes in the DIII-D tokamak using magnetic diagnostics located outside of the plasma. These projects have highlighted my interest in the interaction between plasma modes and eddy currents in plasma facing structures in tokamaks. However, alternative magnetic confinement fusion schemes and inertial confinement fusion (especially using heavy ion fusion) also hold my interest.*

## **About me:**

*I love the ability science has to bring people together. People around the world all simply want to know more. I caught the travel bug young, and have been to a number of countries throughout Asia and Europe. Studying at the National University of Singapore, I forged my love for physics alongside my love for international collaboration. Rugby, a mentally and physically challenging international sport, also earned a firm place in my heart around this time. I hope someday to be part of an international effort to build a working fusion reactor. Prior to that, I hope to work in plasma research efforts centered in my home state of California (General Atomics, Lawrence Livermore, etc.) while continuing my involvement in rugby and international travel. I will always be working with fusion in mind. The opportunity for fusion energy to change the lives of people the world over truly inspires me. When I leave graduate school I don't know for certain if I will go into academics or pure research. I do know that I will be doing what I love.*



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science