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Research field: Algebraic Geometry

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Present research: I am aiming at finding good descriptions of singular Fano 3-folds which extend the famous descriptions of smooth Fano 3-folds by Professor Shigeru Mukai. In the course of this, I have proved the following recently:
(1) I found a good description of the moduli space of even spin curves of genus 4, and proved it is a rational variety.
(2) I proved certain two Calabi-Yau 3-folds have the same mirror family.

Notice for the students: To continue to be a mathematician, most important things are finding appropriate problems by oneself, and thinking them for a long time seriously in various ways.
Please spend time by realizing these while being a graduate student. As for algebraic geometry, you had better read Hartshorne's text book until the section of cohomology for example before entering graduate school if you want to be on time to write a original master thesis. Recently, I used Kollar-Mori's book on Birational Geometry as the text book of regular seminar.