

Doing research in Germany

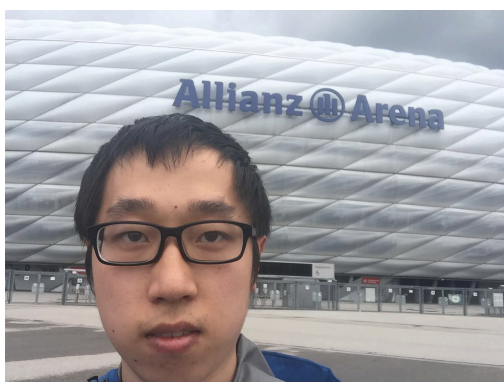
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1st year of doctor course

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I stayed in the lab of Prof. Frank Glorious for 3 months (Apr. 2nd, 2016 – Jun. 30th, 2016) in the University of Muenster (*Westfälische Wilhelms-Universität Münster*). I worked with a doctor course student and did some organic synthesis. The topic is about 'synthesis of quinoline without catalyst'. Quinoline has been found of great significance in both academic research and industrial applications. Previously, quinoline was always synthesized in the presence of noble metal catalyst and always took many steps. This time, I worked with a doctor course student and developed a new method to synthesize quinoline at room temperature without any catalyst. The solvent also worked as reactant and it is good for green chemistry. I synthesized more than 15 quinoline compounds with different substrates and most of them have high yield and good regioselectivity. During this research, my understanding about chemistry was developed and I learnt a lot about catalysis, which was totally different from my research before. Also, my synthetic skill was developed and it will be very helpful for my future career. I made some discussion with Prof. Glorious in different occasions. His deep understanding about organic chemistry and daily life impressed me so much. I learnt a lot from him.

During research, I travelled around many cities in Germany, including Berlin, Munich, Koln, Hamburg, Dortmund, etc. I visited many famous sights and museums. I also participated in many activities like watching football and barbecue. All of them expanded my eyesight and I will miss these days forever.



(left) Outside Allianz Arena at Munich. (right) Watch European Football Championship at the University of Muenster.