

Your name: Hang Jin

Your institution: George Washington University



Tell us a little bit about yourself, including what you are studying.

I am a Ph.D. Student from George Washington University and I'm a Mathematics major, my research area is focused on the analysis and Partial differential equation. More precisely, I was studying the bubbles and droplets in a singular limit of the FitzHugh-Nagumo system. In such a system, we want to study the stability of the energy. To find the expression of the energy term, we need to study the property of the green's function, and to find the critical point, we need to study the Bessel function related to this green's function. The stability of the energy is related to the size of the lattice and also the sharpness of the area. Also, it's different from 2-dimensional space and 3-dimensional space. We have shown that in the 2-d case, the least energy occurs in a unit circle, and in 3-d case, the least energy occurs in a hexagon with the area.

Where did your internship take place, and who did you work with?

My internship begins on Jun.23rd due to my visa problem. I worked with Bruce Palfey's lab at the University of Michigan. More precisely, I work with Dr. Palfey and Ms. Robert who is the research assistant and technician of Palfey's lab. Also, I work with Dr. Hayden from SGCI.

What are some things that you learned as a result of this internship?

My program is to establish a website of search interface connected to Neo4j database, and the program is divided into two parts, the first one and the easier one use HTML, CSS, and Javascript to build the search interface. The second one is to use python or Django to connect the search interface with Neo4j database. I have learned some coding in HTML, CSS, and Javascript. I have established a simple web search sample. In the future, I will try to study coding in python in order to finish this program.

Do you see yourself engaging with SGCI again in the future? Perhaps when you begin your career?

Yes, sure. I think the coding program is very interesting. And SGCI is also a very nice company. Everyone I met is very kind and helpful to me.

Anything else to add about your internship experience?

So far is good, since I have just begun my internship. I will add some experience maybe in the future.