

# Summer 2013 Student Interns



Gavin Luo

Zexuan (Aaron) Wang

Suhaib Ahmed

Parastoo Abtahi

Daniel Wei

## **Gavin Luo** - Computer Science, University of Waterloo

During my second term at Rocscience, I focused on developing a new tool called *RSTest*. *RSTest* is a simulation tool to test different materials with a variety of loadings. This project was very challenging because the tool was made from scratch. However, I had a lot of fun making this software. During this work term, my programming skills, such as data structure management and user interface design were highly improved. I also had a better understanding of how to manage projects effectively. My supervisor Thamer Yacoub helped me greatly throughout my projects because he is able to motivate his students to achieve their goals. Not only did I improve on my programming skills, but I also had a lot of fun working in this super friendly company.

## **Zexuan (Aaron) Wang** - Engineering Science, University of Toronto

I spent the summer of my sophomore year here in Rocscience where I was working on *ExamineTab* software, a 3D displacement and stress analysis software of excavations in tabular orebodies. It was absolutely a memorable experience for me to learn how the knowledge I gained in university can be applied to tackle real-world geotechnical problems. As a computer engineering intern, the best part about working at Rocscience is that I actually got involved in the software design and decision making process, which can hardly happen in any other software companies. Everybody here at Rocscience is just as friendly and helpful as one can imagine especially my supervisors Thamer Yacoub and Damir Valiulin.

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**Suhaib Ahmed** - Electrical and Computer Engineering, University of Toronto

My work at Rocscience involved the use of key block theory to analyze wedge failure, which is a structurally controlled mode of failure in rock slopes. I worked on *Swedge* under the guidance and supervision of Dr. Brent Corkum, who was very friendly and open to my ideas. This was a great project and exposed me to how modern day research shapes the state-of-the-art software tools. I got a chance to listen to guest speakers and how their research was shaping our world. Work at Rocscience was very nourishing and I definitely enjoyed it a lot.

**Parastoo Abtahi** - Engineering Science, University of Toronto

During my summer Internship I worked closely with the marketing team at Rocscience. I made videos that introduced the new 3D Finite Element Analysis Program, *RS<sup>3</sup>*, in multiple languages. I created a series of tutorial and feature videos highlighting different capabilities of this program. In addition, I put together a series of installation videos that guide customers through the step by step process of installing different programs. At Rocscience I was always provided with great help and support. The friendly environment made my first job opportunity a valuable and enjoyable experience.

**Daniel Wei** - Civil Engineering, University of Waterloo

During this term, I was challenged with a variety of tasks in *RS<sup>3</sup>* and *RocFall 5.0*. I was able to explore graduate level geotechnical topics, such as 3D finite element analysis and rigid body mechanics, in a fun and rewarding environment to better explore my career options. I feel privileged to have worked with incredible researchers who have made my experience in Rocscience memorable and enjoyable. I will definitely miss the table tennis battles and occasional office desserts.

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