



# Center for Graphics and Geometric Computing

Lab Project 234326 proposal

Spring 2014

## Animated Visualization of Tangent Vector Fields

### **Description:**

Visualizing vector fields is a challenging problem, due to the amount of information that needs to be shown. Most visualization methods use a single image to visualize a fixed vector field. Your goal in this project is to build an animation based visualization for vector fields, in the spirit of: <http://earth.nullschool.net/>.

The input to your system would be a surface and a piecewise constant vector field, and the output would be real time visualization of the vector field, as in the previously mentioned link.

### **Prerequisites:**

- Very good programming skills in C/C++
- Computer Graphics course 234325 and/or previous work experience with Open/GL and graphics
- Good approach to math

### **References:**

<http://earth.nullschool.net/>.

### **Advisor:**

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