# Geoffrey Scott

CONTACT
INFORMATION

Department of Mathematics
University of Toronto
40 St. George Street
Toronto, ON M5S 2E4

gsscott.github.io
gscott@math.toronto.edu
(647)677-3307

EDUCATION

**University of Michigan**

*Doctor of Philosophy, Mathematics*                                    **2008 − 2014**

Thesis: *Torus Actions and Singularities in Symplectic Geometry* with advisor Daniel Burns Jr.

**Dartmouth College**

*Bachelor of Arts, Mathematics (minor in Engineering)*                 **2004 − 2008**

*summa cum laude* (top 5% of graduating class)

EMPLOYMENT

**University of Toronto**

*Postdoctoral Fellow, Mathematics*                                     **2014 − 2017**

PROJECTS

**Marathon data visualization**

Constructed an interactive web visualization of marathon finishing times using the d3.js library

Available at gsscott.github.io

**Sea lion counting**, Kaggle competition

Re-trained the VGG16 convolutional neural network to count sea lions from aerial photographs using tensorflow and transfer learning

Scored in the top 10% of competition participants

**Zillow housing price estimation**, Kaggle competition (ongoing)

Predicted housing prices using feature engineering, ensemble learning, and the scikit-learn library

**Carvana image segmentation**, Kaggle competition (ongoing)

Performed image segmentation on car pictures using image processing tools and neural networks

RESEARCH
MATHEMATICS

**Publications**

Wrote nine research papers on differential geometry and graph theory

Gave invited research talks at five major international conferences and several seminars

See gsscott.github.io for a list of publications and talks

**Teaching**

Lectured for eleven semesters at University of Michigan and University of Toronto (differential calculus, integral calculus, advanced linear algebra, graph theory, galois theory)

Tutored students for one semester at the African Institute for Mathematical Sciences in Senegal

Won three departmental awards for outstanding teaching

See gsscott.github.io for course materials

**Administration**

Organized geometry seminars at University of Michigan and University of Toronto

Co-administered an integral calculus course having over 800 students

SKILLS
(■ DENOTES
PROFICENCY)

| | | | |
|---|---|---|---|
| Python | ■■■■□□ | Javascript | ■■□□□□ |
| HTML/CSS | ■■■□□□ | C | ■■□□□□ |
| Matlab | ■■■□□□ | LaTeX | ■■■■■□ |