



Graduate Teaching Assistant Summer 2004  
Course Taught: Math Modules. University of Colorado Department of Mathematics.

Research Assistant Summer 2002  
Programmer for Prof. Jeffrey Fox's. Electrodynamic nerve cell modeling project. University of Colorado at Boulder Department of Mathematics.

Research Assistant Summer 2001  
Telescope operator and observatory technician for Prof. Alan Kiplinger's H- $\alpha$  polarization in solar flares project. University of Colorado at Boulder.

## Awards

- Daniel Bartlett Memorial Fellowship. David Bartlett and Janice Wezelman, awarded by University of Arizona Mathematics Department. Memorial fellowship in remembrance of Daniel Bartlett. Summer 2010.
- VIGRE Fellowship. University of Arizona Mathematics Department. Fall 2008.

## Publications

- [1] D. Champion. Möbius structures, Einstein metrics, and discrete conformal variations on piecewise flat two and three dimensional manifolds. Ph.D. thesis. University of Arizona, May 2011.
- [2] D. Champion, D. Glickenstein, and A. Young. Regge's Einstein-Hilbert functional on the double tetrahedron. To appear in Diff. Geom. Appl. Available at: arXiv:1007.0048v1 [math.DG].
- [3] D. Champion, A. Marchese, J. Miller, and A. Young. Constant Scalar Curvature Metrics on Boundary Complexes of Cyclic Polytopes. In submission, available at: arXiv:1009.3061v1 [math.DG].
- [4] Primary author of the GEOCAM (Geometric Evolutions on Computationally Abstract Manifolds) laboratory manual. Available at: <http://code.google.com/p/geocam/downloads/list>

## Selected Talks

- "Extrema of energy functionals on simplicial 3-manifolds I & II," Geometry Seminar, University of Arizona, March 2010.
- "Inversive Distance Characterization of Hyperideal Simplices" Geometry Seminar, University of Arizona, October 2009.
- "Circle Trios and Sphere Quartets I & II," Geometry Seminar, University of Arizona, November 2008, February 2009.
- "Rigidity of Simplicial Surfaces," Geometry Seminar, University of Arizona, April 2008.
- "Scissor Congruence of Smooth Bounded Planar Bodies," Graduate Student Colloquium, University of Arizona, October 2006.
- "Infinite Ramsey Theory," Graduate Student Colloquium, University of Arizona, September 2006.
- "Scissor Congruence Invariants," Graduate Student Seminar, University of Colorado, March 2005.
- "Scissor Congruence I & II," Foundations Seminar, University of Colorado, October 2004.

**Skills**

Experienced in Fortran, C, C++, Mathematica, and Maple.