

Taylor Hines

CONTACT INFORMATION 1215 East Vista del Cerro Dr. 480-966-3409
Apt. 1027 South Taylor.Hines@asu.edu
Tempe, Arizona 85281

EDUCATION Arizona State University, Tempe, AZ.
M.A. in Mathematics, expected Spring 2010;

Arizona State University, Tempe, AZ.
B.S. in Mathematics, summa cum laude, with honors, Spring 2009;
(Cumulative GPA: 3.98 / In-Major GPA: 4.05)

Boğaziçi University, Istanbul, Turkey
Studied Turkish language, history, and culture; Summer 2006

PAPERS AND PUBLICATIONS ♦ D. Curtis, T. Hines, G. Hurlbert and T. Moyer, *Pebbling Graphs By Their Blocks*, Integers: The Electronic Journal of Combinatorial Number Theory, submitted.

♦ D. Curtis, T. Hines, G. Hurlbert and T. Moyer, *Near-Universal Cycles for Subsets Exist*, SIAM Journal on Discrete math, submitted.

♦ T. Hines, *Mathematically Modeling the Mass-Effect of Invasive Brain Tumors*, undergraduate honors thesis, in preparation.

TALKS AND PRESENTATIONS ♦ *Near UCycles Exist for Subsets*. MathFest, Madison WI. July 2008.

♦ *On Near-UCycles for Subsets*. Southwest Undergraduate Mathematics Research Conference (SUnMaRC), Tempe AZ. Feb 2008.

♦ *On Near-Universal Cycles for Subsets*. MAA AMS Joint Mathematics Meeting, San Diego CA. Jan 2008.

♦ *Mathematically Modeling the Mass-Effect of Glioblastomas Multiforme*. Research in Interdisciplinary Science & Engineering (RISE) Symposium, Tempe AZ. Oct 2008.

♦ *Mathematically Modeling the Mass-Effect of Invasive Brain Tumors*. Southwest Undergraduate Mathematics Research Conference (SUnMaRC), Albuquerque NM. Feb 2009. Featured Student Speaker.

♦ *Modeling the Mass-Effect of Invasive Brain Tumors*. SIAM Conference on Computational Science and Engineering, Miami FL. March 2009.

INTERNSHIPS AND RESEARCH EXPERIENCE *Independent Research* **Arizona State University**
Tempe, AZ Fall 2008 – Present
Areas of research include signal reconstruction and Fourier analysis; directed by Dr. Anne Gelb.

The CSUMS project **Arizona State University**
Tempe, AZ Spring 2008 – Present
Areas of research include modeling of biological systems, continuum mechanics, and finite element analysis. Computational programming was also studied, including high performance computing and parallel processing with OMP and MPI. The 2009 Department of Mathematics and Statistics Undergraduate Research Award was awarded for my work on this project.

The MCTP program **The University of New Mexico**
Albuquerque, NM Summer 2008

Areas of research include Fourier analysis, symmetry, mathematical modeling, and fluid dynamics.

Independent Research
Tempe, AZ

Arizona State University
Fall 2007 – Fall 2008

Areas of research include combinatorics and graph theory; directed by Dr. Glenn Hurlbert. The 2008 Department of Mathematics and Statistics Undergraduate Research Award was awarded for my work on this project.

HONORS AND
AWARDS

- ◊ Department of Mathematics and Statistics Undergraduate Research Award, Spring 2009
- ◊ Barrett Honors College Graduate, Spring 2009
- ◊ Department of Mathematics and Statistics Undergraduate Research Award, Spring 2008
- ◊ Member of Phi Kappa Phi Academic Honor Society since Spring of 2008
- ◊ Member of Phi Beta Kappa Academic Honor Society since Fall of 2007
- ◊ Member of Golden Key International Honour Society since Fall of 2007
- ◊ Maintained Provost's Scholarship to Arizona State University since Fall of 2005
- ◊ Dean's Honor List student at Arizona State University since Fall of 2005

WORK
EXPERIENCE

Mathematics Grader

Arizona State University
Dept. of Mathematics and Statistics
Tempe, AZ

2008 – present

- Graded assignments for undergraduate mathematics courses.

Mathematics Tutor

Arizona State University
Learning Support Services
Tempe, AZ

2006 – 2008

- Provided academic assistance to students both in a tutoring center as well as in the residence halls.
- Organized extensive test reviews and study sessions for undergraduate mathematics classes.

Supplemental Instruction Leader
Summer Bridge Program

Arizona State University
Student Success Center
Tempe, AZ

Summer 2007

- Acted as grader and teaching assistant for entry-level mathematics courses.
- Organized regular mathematics test reviews.
- Conducted 3-5 study sessions per week for entry-level mathematics students.

TECHNICAL SKILLS

Languages: MATLAB, C, C++, Korn shell, Python, Java, Fortran, Visual Basic, \LaTeX .

Software: Maple, Netlib, BLAS, LAPACK, GAP, Microsoft Office.

Operating Systems: Linux, OS X, Windows.

REFERENCES

Available on request.