

C.V. of
MAXX CHO

Mailing address
To be announced

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<http://www.maxxcho.com>



Education

- **University of Maryland, College Park** 2009-Now
Candidate for Ph.D in Pure Mathematics
- **Swarthmore College** 2005-2009
B.A. with High Honors in Mathematics and Music (Double Major)
- **Academy for the Advancement of Science and Technology at Bergen County Academies** 2001-2005
High School

Awards

- **The Heinrich W. Brinkmann Mathematics Prize** 2009
For the best paper on a mathematical subject.
- **The Melvin B. Troy Prize in Music** 2009
For the best, most insightful paper in music or composition.
- **MAA Undergraduate Poster Session Winner** 2009
For the best research posters in the Undergraduate Poster Session at the Joint Math Meetings conference.

Research Fellowships

- **NSF Research Experience for Undergraduates in Mathematics** Summer 2008
Awarded and hosted by University of North Carolina at Asheville.
Advisor: Samuel R. Kaplan. *Paper:* The Algebraic Compatibility of Riemannian Operators' Voice-Leading Properties.
- **NSF Research Experience for Undergraduates in Mathematics** Summer 2007
Awarded and hosted by Brigham Young University.
Advisor: Scott Glasgow. *Paper:* Stochastic Interest Distribution via Green's Functions.

Publications and Abstracts

- **Mathematics and Computation in Music (MCM) Conference** June, 2009
Hosted at Yale University. *Paper Accepted for Poster:* Cho, Maxx. (2009). The Voice Leading Automorphism on Neo-Riemannian Operators.
- **Joint Math Meetings Conference** January, 2009
Abstract Accepted for Poster: Cho, Maxx. (2009). The Algebraic Compatibility of Riemannian Operators' Voice-Leading Properties.

- **Young Mathematician's Conference** *August, 2007*
Abstract Accepted for Talk: Cho, Maxx. & Smith, Aaron. (2007). Stochastic Interest Rate Models, Distributions, and Symmetries.

Teaching Experience

- **Grader** *Fall 2008*
Institution: Swarthmore College. *Course:* Math 29: Discrete Mathematics.
Professor: Stephen B. Maurer
- **Lecturer** *Summer 2006*
Institution: Jason Academy. *Course:* Summer School in AP Calculus.
- **Tutor**
Over 6 years of personal teaching experience.

Research Societies and Memberships

- **The Society for Mathematics and Computation in Music** *Pending*
- **American Mathematical Society** *Pending*
- **Sigma-Xi Scientific Research Society** *Since 2007*

Research Interests

- **Mathematics:** Differential Topology, 4-manifold Theory, Cobordism, Algebraic Topology, Category Theory
- **Mathematical Music Theory:** Neo-Riemannian Transformation Theory, Geometric Music Theory

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