

Eva G. Goedhart

Department of Mathematics, Bryn Mawr College
101 N. Merion Ave, Bryn Mawr, PA 19010
egoedhart@brynmawr.edu, (484) 868-6486

Education

Ph.D., Mathematics, Bryn Mawr College, (expected) May 2015

Dissertation: The Nonexistence of Solutions to Certain Families of
Diophantine Equations

Advisor: Helen G. Grundman

M.A., Mathematics, Bryn Mawr College, May 2011

Research Workshops

- Ban International Research Station, Summer School on Contemporary Methods for Solving Diophantine Equations, Ban , AB, Canada, Jun. 2012
- Park City Mathematics Institute, Graduate Summer School: Arithmetic of L-functions, Park City, UT, Jun. 2009

Professional Service

- Student Director, Graduate Group in Science and Mathematics, BMC, 2008{09
- Student Rep., Graduate Council of Arts & Sciences, BMC, 2008{09
- Coordinator, Graduate Student Research Symposium, BMC, 2007{09
- Graduate Student Rep., College Budget Committee, BMC, 2007{09
- Math Dept. Rep., Graduate Student Association, BMC, 2007{09
- President, Colleg2.84/T1_1 1 hapte reasure.136 -1.242104/28 (b)dmator, 2004/T1_1 1 Tf (

Presentations for Younger Students

CATALYST Conference, Swarthmore College, PA

Patterns in Pascal's Triangle, Mar. 2013

Conference and Seminar Talks

New Results in Diophantine Equations, 1105th Meeting of the American
Mathematical Society, Greensboro, NC, Oct. 2014

Diophantine Equations II: New Results via Diophantine Approximation,
Philadelphia Area Number Theory Seminar, Bryn Mawr College, PA, Oct. 2014

Diophantine Equations I: New Results via the M438 03 College 2010 (via Tj/T1_1 1 Tf()Tj/T1_3 1 T6

Additional Conferences Attended

Joint Mathematics Meetings, San Francisco, CA, Jan. 2010
Joint Mathematics Meetings, Washington, D.C., Jan. 2009
EPaDel Section of the Mathematical Association of America Meeting,
Villanova Univ., PA, Nov. 2006
Joint Mathematics Meetings, San Antonio, TX, Jan. 2006
Nineteenth Clemson Mini-Conference on Discrete Mathematics and Algorithms,
Clemson Univ., SC, Oct. 2004
Eleventh International Conference on Fibonacci Numbers and Their Applications,
Braunschweig, Germany, Jul. 2004

Professional Memberships

American Mathematical Society
Association for Women in Mathematics
Pi Mu Epsilon

Publications

\Explicit bounds for second-order difference equations and a solution to a question of Stevic," with K. Berenhaut, *J. Math. Anal. Appl.* **305** (2005), no. 1, 1{10.

\Second-order linear recurrences with restricted coefficients and the constant $(1-3)^{1-3}$," with K. Berenhaut, *Math. Inequal. Appl.* **9** (2006), no. 3, 445{452.

\Explicit bounds for third-order difference equations," with K. Berenhaut and S. Stevic, *ANZIAM J.* **47** (2006), no. 3, 359{366.

\On the Diophantine equation $NX^2 + 2^L 3^M = Y^N$