

# Eva G. Goedhart

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

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## 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 -1.242 To 1 (C6) 28 (b) dmaptr, 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*  $d(via) Tj/T1_1 1 Tf() Tj/T1_3 1 T6$

### 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  $NX^2 + 2^L 3^M = Y^N$