Breeann Marie Flesch

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Education

- **University of Colorado Denver** — Denver, CO
  Ph.D. Applied Mathematics — 2011
  - Advisor: Richard Lundgren
  - Dissertation: On Interval Representations and Symmetries of Graphs

- **University of Colorado Denver** — Denver, CO
  M.S. Applied Mathematics — 2010
  - Advisor: Richard Lundgren
  - Focus: Discrete Mathematics

- **Montana State University Billings** — Billings, MT
  M.Ed. Interdisciplinary Studies — 2003
  - Advisor: Dixie Metheny
  - Focus: Mathematics Education

- **Rocky Mountain College** — Billings, MT
  B.S. in Mathematics and Computer Science — 2001
  - Graduated with Summa Cum Laude honors

- **Budapest University of Technology** — Budapest, Hungary
  Semester Abroad — 2001
  - Studied mathematics, including Analysis and Combinatorics

Awards, Grants & Honors

Inducted into Pi Mu Epsilon, National Mathematics Honor Society 2012

National Science Foundation GK-12 Fellowship . . . . 2009 - 2011

Lynn Bateman Outstanding Graduate Teaching Assistant Award 2009

Teaching Assistant, University of Colorado Denver 2007-2009

State of Colorado Professional Teacher License: Secondary Mathematics 2003-present

Technology Innovation Challenge Award Grant Assistant 2002

Graduate Assistant, Montana State University Billings 2001-2002

Dean's Cup Award, Rocky Mountain College 2001

National Science Foundation Summer Fellowship 2000

Teaching Experience

- Western Oregon University, Monmouth, OR 2011-present
  Assistant Professor
  Courses Taught

  - Discrete Mathematics
  - Elementary Problem Solving
  - Discrete Mathematics for Elementary Teachers
  - Foundations of Elementary Mathematics II
  - Introduction to Geometry for Elementary Teachers

- University of Colorado Denver, Denver, CO 2007-2009
  Teaching Assistant
  Courses Taught

  - Mathematics for Liberal Arts
  - Mathematics for Liberal Arts Online
  - College Algebra for Business Majors
  - Guest Lecturer: Graduate Applied Linear Algebra
  - Guest Lecturer: Graph Theory
  - Research Experience for Middle School Teachers

- Peak to Peak Charter School, Lafayette, CO 2003-2007
  Mathematics and Computer Science Teacher
  Courses Taught

  - Calculus I
  - Precalculus
  - Discrete Mathematics
  - Algebra I
  - Introduction to Computer Science
  - Introduction to Technology

- Peak to Peak Charter School, Lafayette, CO 2003-2007
  Curriculum and Teacher Development Coordinator
  Training and Development Activities

  - Research, design, and implement standards-based curriculum for 5 new classes
  - Mentor for Alternative Teacher Licensure program
  - Teach professional workshops in Peer-Coaching Program and Web Page Creation

- Whitefish High School, Whitefish, MT 2003
  Mathematics Teacher
  Courses Taught

  - Algebra II
  - Geometry

Institutional Service

Faculty Senate Division Senator, Western Oregon University 2012-present
Maurice Undergraduate Initiative Review Committee, Western Oregon University . 2011-present
Sonia Kovalevsky Mathematics Day Co-Organizer, Western Oregon University . . . 2011-present
Mathematics Education Committee, Western Oregon University 2011-present
Graduate Student Committee, University of Colorado Denver 2009-2010
Hiring and Organizational Development Team Member, Peak to Peak Charter School . 2004-2007
Curriculum Mapping Committee Member, Peak to Peak Charter School 2004-2007
Faculty Advisor for Student Council, Peak to Peak Charter School 2003-2006
Co-President of the Graduate Student Association, Montana State University Billings . 2002-2003
NCATE Accreditation Committee Member, Montana State University Billings 2001-2002

Professional Service and Membership

- "Circular consecutive choosability of k-choosable graphs," American Mathematical Society Reviewer, April 2012.

- "Characterizing directed path graphs by forbidden asteroids," American Mathematical Society Reviewer, January 2012.

- American Mathematical Society, Member, 2009-present

- Society for Industrial and Applied Mathematics, Member, 2008-2011

Publications

- Brown, David; Flesch, Breeann; and Lundgren, J. Richard. A characterization of 2-tree probe interval graphs. submitted to *Discrete Applied Mathematics* on March 19, 2012.

- Ferrara, Michael; Flesch, Breeann; and Gethner, Ellen. List-distinguishing colorings of graphs. *The Electronic Journal of Combinatorics* 18 (2011), P161, 17pp.

- Flesch, Breeann; and Tennenhouse, Craig. Edge maximal non-interval graphs. *Journal of Combinatorial Mathematics and Combinatorial Computing* 77 (2011), 33-44.

- Flesch, Breeann; and Lundgren, J. Richard. A characterization of k-trees that are interval p-graphs. *The Australasian Journal of Combinatorics* 49 (2011), 227-237.

- Das Gupta, Shilpa; Flesch, Breeann; and Lundgren, J. Richard. Bigraph impropriety. *Congressus Numerantium* 206 (2010), 115-129.

Presentations

- *A characterization of probe interval 2-trees.* The Mathematical Association of America Pacific Northwest Section Meeting - Portland, OR, April 2012.

- *List-Distinguishing colorings of graphs.* Forty-third annual Southeastern International Conference on Combinatorics, Graph Theory, and Computing – Boca Raton, FL, March 2012.

- *List-Distinguishing colorings of graphs.* Wuhan International Graph Theory Workshop – Wuhan, Hubei, China, June 2011 (invited).

- *A characterization of probe interval 2-trees.* Forty-second annual Southeastern International Conference on Combinatorics, Graph Theory, and Computing – Boca Raton, FL, March 2011.

- Panel Presentation: *Interdisciplinary and Research Lessons.* National Science Foundation GK-12 Rocky Mountain Regional Conference – Denver, CO, October 2010.

- *List-Distinguishing colorings of graphs.* 1060th American Mathematical Society Sectional Meeting – Newark, NJ, May 2010 (invited).

- *Interval p-graphs.* The Mathematical Association of America, Rocky Mountain Section Meeting – Fort Collins, CO, April 2010.

- *Interval p-graphs.* Forty-first Southeastern International Conference on Combinatorics, Graph Theory, and Computing – Boca Raton, FL, March 2010.

- Poster Presentation: *GK-12 Transforming Experiences.* National Science Foundation GK-12 National Conference – Washington DC, March 2010.