

Curriculum Vita

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Gary R. Lawlor

Address

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Professional Preparation

Brigham Young University	Mathematics	BS, 1984
Stanford University	Mathematics	Ph.D. 1988
Princeton University (postdoctoral)	Geometric Measure Theory	1988-1991

Appointments

Brigham Young University	Associate Professor	1997-present
University of Granada, Spain	Visiting Professor	Fall, 1999
Brigham Young University	Assistant Professor	1991-1997
Princeton University	Assistant Professor (partially concurrent with postdoc)	1989-1991

Selected Publications

Lawlor, Gary. Double bubbles for immiscible fluids in \mathbb{R}^n . *Journal of Geometric Analysis* (2014).

Dorff, Rebecca; Lawlor, Gary; Sampson, Donald; Wilson, Brandon. Proof of the planar double bubble conjecture using metacalibration methods. *Involve* **2** (2009), no. 5, 611–628. Note: The coauthors were all undergraduate students.

Kerckhove, Michael; Lawlor, Gary. The circle and the cycloid: a surprising link. *Amer. Math. Monthly* **114** (2007), no. 5, 441–443.

Lawlor, Gary. A new minimization proof for the brachistochrone. *Amer. Math. Monthly* **103** (1996), no. 3, 242–249

Lawlor, Gary. A new area-maximization proof for the circle. *Math. Intelligencer*, **20** (1998), no. 1, 29-31.

Areas of Interest

Geometric optimization, focusing on discovering new method proofs.

Multiple bubbles

Optimal curves

Mathematical illumination (the simplification of methods of proof for the enrichment of undergraduate teaching)

Other activities and awards

Directed undergraduate research in BYU summer REU, 2005, 2006, 2008. Led three or four students each summer in learning and investigating geometric minimization problems.

Served as mentor for BYU Honors theses for Donald Sampson (2010) and Heather Florence (2004).

Awarded a BYU Teaching and Learning with Technology fellowship, 2003-2004.

Developed a system to capture a video from writing on a whiteboard while speaking, to post on the web and give extra help to students.

Student award for Teacher of the Year in mathematics, 1998.