Preparng to Teach Mathematics and Statistics with Technology

A Decade of Development and Impact on Preservice Secondary Mathematics Teachers

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Development

2005
- Development of Statistics Unit using TinkerPlots and Fathom

2005-2008
- Statistics Unit testing and use

2008
- Development of Geometry Unit using Geometer’s Sketchpad

2008-2011
- Statistics & Geometry Units testing, use, and publishing

2011
- Development of Algebra Unit using GeoGebra

2015-2016
- Creation and use of online PTMT Portal

2016
- ESTEEM: CODAP development

2016-2020
- Enhancing prior Statistics Unit
- Creating & using E-modules

Impact

Faculty Development
- 2009-2013: Summer Institutes
- 2010-2011, 2013-2016: AMTE Workshops
- Webinars in 2014 (3) & 2015 (2)
- TUMTE Wikispace to share resources
- Quarterly newsletters

Research
- 32 Publications
- 54 Presentations
- 2 National Technology Leadership Awards
- 4 Dissertations / Theses

Online Engagement
- University faculty and students enroll in Portal
- District supervisors and teachers enroll
- PTMT Materials also used in MOOC on Teaching Math with Technology with 500+

Teachers
- Preservice teachers in university settings
- Practicing teachers in professional development
- Online engagement through Portal and MOOCs

$2.7 million in funding since 2005

266 users enrolled in portal

200+ faculty members in our network

4500+ mathematics teachers impacted

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