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Min-Lin Lo TSSA Winter 2015

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Winter 2015 Teaching Skills Study Award (TSSA) Report

Name: Min-Lin Lo

Department: Mathematics

Email address: mlo@csusb.edu

Date Submitted: January 12, 2016

Name and Date of conference attended: AMS-MAA Joint Mathematics Meetings
January 10-12, 2015

Teaching Skill(s) Studied:

Strategies (including using humor) that enhance teaching and learning mathematics.
Developing mathematical thinking and problem solving skills through games, IBL, and flipped classroom.

Innovative and effective ways to teach assorted math topics.

Making connection between math concepts using real life objects and applications of math.

Impact on Current Teaching (How was this info applied)?

I learned several new hands-on activities and structure and how they are applied in the presenters' class. I applied the following selected items in my classes. It has made my classes more fun and improved students learning.

1. Using popular culture references to create examples.
2. Using technology (e.g., Maple player) to help students visualize multi-dimension concepts.
3. Talked to students about how a group of MIT students using math to beat the Massachusetts lottery and won over 3 million dollars.
4. Statistics class activity using CA lottery scratcher game and horoscopes.
5. Using candy, bonus points, and friendly competition to make practicing even the most basic definition-checking direct proofs more exciting for students.
6. Using IBL classroom teaching models.
7. Using the hands and eyes to demonstrate linear algebra concepts.
8. Designed exam questions that allow fair grading on proofs and complex problems.