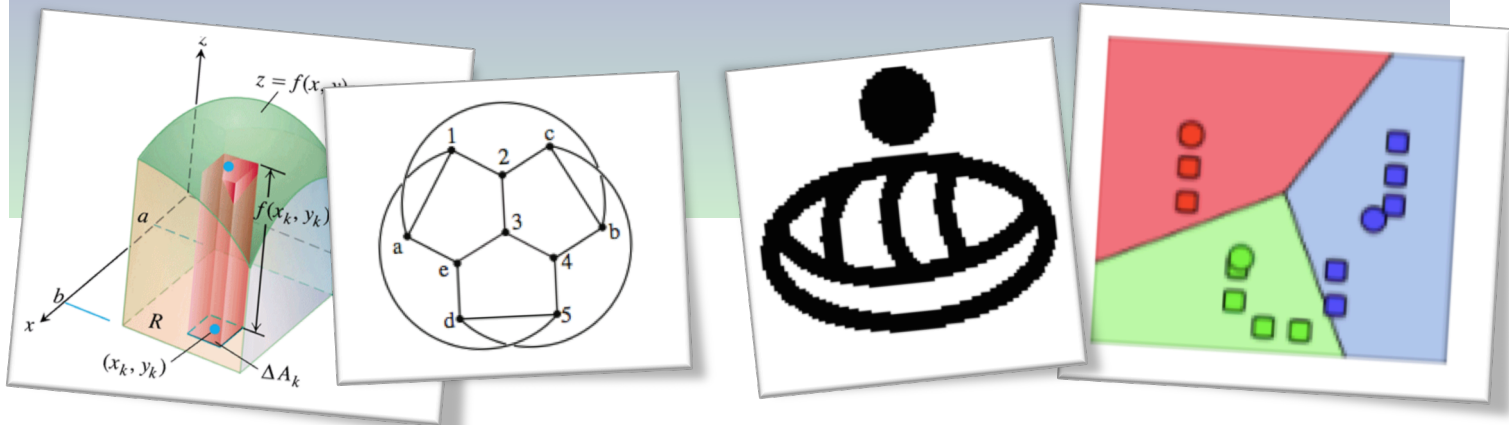


# Math (Enthusiast) Series

Joy 114 @ 3:15 unless otherwise indicated



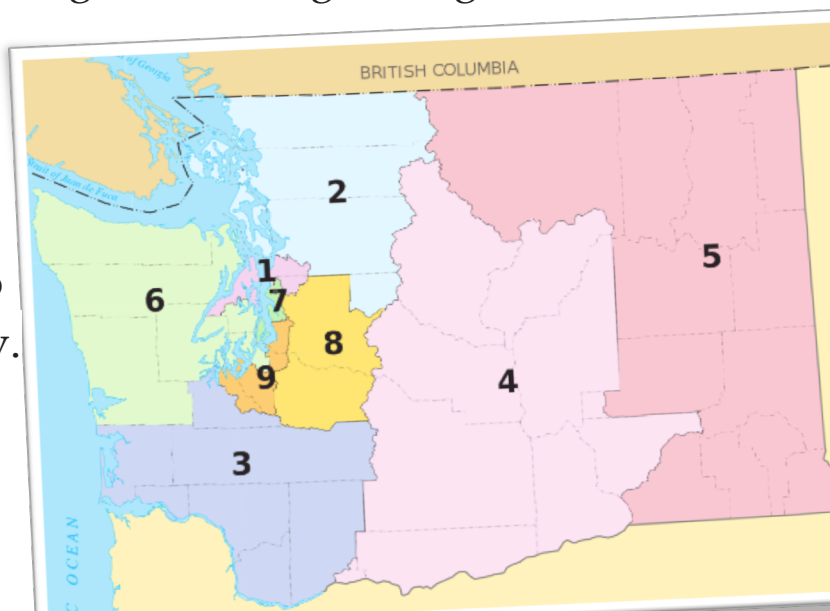
Everyone interested in mathematics is welcome to attend TMath 450's presentations most Tuesdays of Winter quarter (and some Thursdays!)

1/23/18 Tuesday

Dr. Jacob Nelson (Software Development Engineer, Microsoft)

## Training Deep Neural Networks: Optimization at Scale

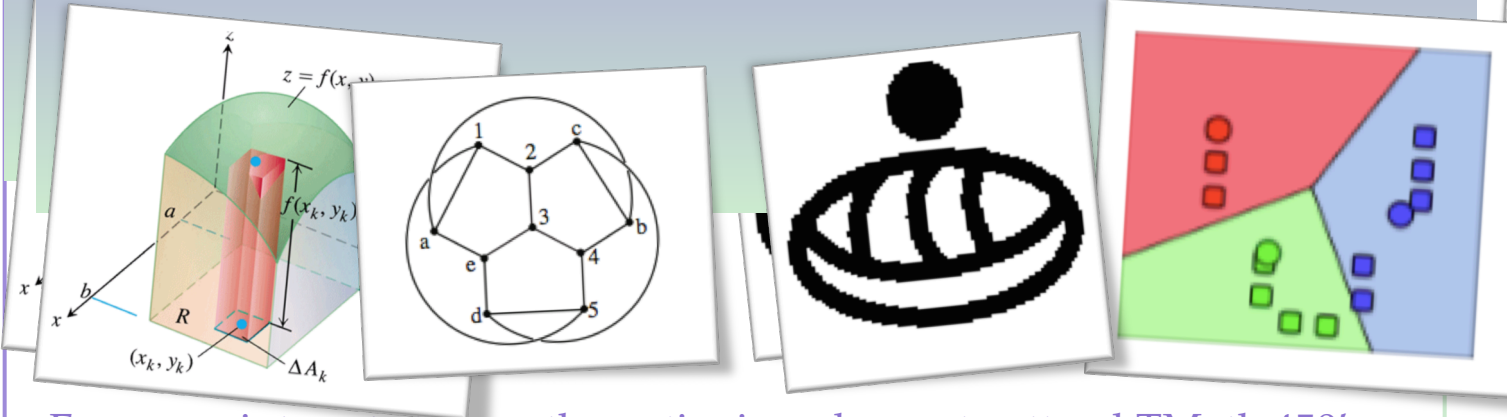
Today's deep neural networks provide excellent accuracy for problems like automatic speech recognition, image recognition, & natural language processing. At the heart of the training process for creating new networks is a nonlinear optimization problem, whose properties make it hard to solve for large datasets efficiently. In this talk, I'll give an overview of how deep neural networks work and discuss how they are trained at scale today. Then I'll describe some of our research to make this training process faster and more efficient.



Washington State districts

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1/9/18 @4:05pm	Taylor Blue (Mount Rainier High, Teacher)
1/16/18 @4:05pm	Jose Bonilla-Bartley (Heartland Express, Pricing Analyst)
1/23/18 Tuesday	Dr. Jacob Nelson (Software Development Engineer, Microsoft)
1/30/18 Tuesday	Dr. Daniel Heath (PLU, Topologist)
2/6/18 @4:05pm	Career Panel (Actuary, Educators, Industry)
2/27/18 Tuesday	Student Presentations
3/1/18 <b>Thursday</b>	Student Presentations
3/6/18 Tuesday	Student Presentations
3/8/18 <b>Thursday</b>	Student Presentations
3/15/18 <b>Thursday</b>	Student Presentations

