

# TAMU REU/VIGRE STUDENT MINI-CONFERENCE - 2004

July 20 and 21 (Tuesday and Wednesday)  
1:00PM - 5:40PM (each day)  
120 Blocker Hall

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## TUESDAY JULY 20

- 1:00 - 1:20 "Population Dynamics on Non-Flat Landscapes"  
(Adam Ciarleglio & Nicholas Gewecke)
- 1:30 - 1:50 "On the Wavelet-Galerkin Solution to the KdV Equation" (Ivan Christov)
- 2:00 - 2:20 "Equilibrium Equations: Polynomials and Polytopes"  
(Katie Uttke, Sagar Bhatt & Jeff Patti)
- 2:30 - 2:50 "A Matrix Criterion for Scalable Frames" (David Rose)
- 3:00 - 3:20 "Sand Dune Lizards in the Fragmented Mescalero Sands"  
(Emi Arima, Yan Li & Jennifer Owens)
- 3:20 - 3:40 =====(20 minute break)=====
- 3:40 - 4:10 "Results on Tight Sampling Sets in Polynomial Spaces"  
(Benjamin Aurispa, Alex Gittens & Sayaka Olsen)
- 4:20 - 4:40 "Dynamics of a One-Predator-Two-Prey System in a Single Ecological  
Patch" (Adam Wang, Adam Christman & Elaina Rodriguez)
- 4:50 - 5:10 "Experimental Complexity Analysis of Two Algorithms for Solving Sparse  
Univariate Polynomials over  $C$ " (Brian D'Astous)
- 5:20 - 5:40 "A stochastic, Intraguild Predation Model"  
(Jennifer Taylor, Noah Whitman & Joseph Wood)

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5:50 - 7:00 PM \*\* Dinner (PIZZA!!) for all students and mentors in 627 Blocker)\*\*

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## WEDNESDAY JULY 21

- 1:00 - 1:20 "Stochastic Models of Species in a Three Patch Connected System"  
(Boris Efroimskiy, Jennifer Hanley & Jimmy Kimball)
- 1:30 - 1:50 "Anisotropic Diffusion With Wavelet Optimized Finite Difference"  
(Brad Duesler)
- 2:00 - 2:20 "The  $P_n$  Orthogonality Constraints: Proof of Existence and a  
Characterization" (Tony Castaldo)
- 2:30 - 2:50 "Computational Methods and Applications of Volumes and Surface Areas"  
(Julie Boxwell Ard, Jennifer Deringer & Brian Worthen)
- 3:00 - 3:20 "Wavelet Sets of 2 Positive and 2 Negative Intervals"  
(Ryan Westbrook & Bill Finkenkiller)
- 3:20 - 3:50 =====(30 minute break & Grad School discussion)=====
- 3:50 - 4:10 "Wavelet Sets of 3 Positive and 1 Negative Interval" (Kyle Vigil)
- 4:20 - 4:40 "Constructing Multi-Sided Toric Patches"  
(Justin Thomas & Ivan Osredkar)
- 4:50 - 5:10 "Wavelet Sets in N-Dimensional Space" (Krista Rister)

\*\*\*\*\*MINI-CONFERENCE IS OVER\*\*\*\*\*