

# WiMSoCal Symposium

**4th Annual Women in Mathematics in Southern California Symposium**  
**Saturday, January 21, 2012, Loyola Marymount University**

## Schedule

**8:45–9:30** Registration, coffee and continental breakfast,  
Math Dept

### *Talk Session I*

#### **University Hall 2786:**

**9:30 – 9:50** Erica Flapan, Pomona College  
*Intrinsic properties of graphs embedded in  $R^3$*

**10:00 – 10:20** Ellie Grano, UCSB  
*Disambiguated Temperley-Lieb Algebra*

**10:30 – 10:50** Alison Gilmore, UCLA  
*An algebraic approach to knot Floer homology*

**11:00 – 11:20** Heather Russell, USC  
*A reduced set of moves on a special subset of knot diagrams*

#### **University Hall 2330:**

**9:30 – 9:50** Gulhan Bourget, CSU Fullerton  
*Missing Data in Transmission Disequilibrium Test with One Sib*

**10:00 – 10:20** Shanshan Xu, USC  
*Non-parametric Multivariate Hypothesis Testing*

**10:30 – 10:50** Alona Chubatiuk, USC  
*Nonparametric Bayesian Method of Estimating an Unknown Probability Distribution*

**11:00 – 11:20** Nadejda Dyakevich, CSU San Bernardino  
*Long Term Behavior of Solutions for Bernoulli Initial Value Problems*

#### **University Hall 2727:**

**9:30 – 9:50** Cymra Haskell, USC  
*The Stochastic Beverton-Holt Equation*

**10:00 – 10:20** Lixian Chen, CSU, San Marcos  
*The Lotka-Volterra Predator-Prey Model and Harvesting Strategies*

**10:30 – 10:50** Aisha Najera, CGU

*A cellular automaton model for drug release from a matrix tablet*

**11:00 – 11:20**

Katja Goldring & Francesca Grogan, UCLA

*Difference Equations with an Allee Effect and the Periodic Sigmoid Beverton-Holt Equation Revisited*

**University Hall 2700**

**11:20 – 11:50**

Coffee break

**11:50 – 12:45**

Breakout sessions. (Various rooms)

**12:45 – 2:00**

Lunch

**Seaver 100**

**2:00 – 3:00**

Kristin Lauter, Microsoft, San Diego

Keynote Address

*Elliptic Curve Cryptography & Applications*

**University Hall 2700**

**3:00 – 3:30**

Coffee

***Talk Session II***

**University Hall 2786:**

**3:30 – 3:50**

Maria Isabel Bueno Cachadina, UC Santa Barbara

*Eigenvectors for some families Fiedler-like linearizations*

**4:00 – 4:20**

Yi Yang, UCLA

*Binary Matching Pursuit in 1-Bit Compressive Sensing and Matrix Completion*

**4:30 – 4:50**

Marilyn Vazquez, CSU, Long Beach

*Vascular Network Extraction of Small Veins on Placental Surfaces*

**University Hall 2330:**

**3:30 – 3:50**

Yanping Ma, Loyola Marymount

*Population Dynamics Study of Heterotypic Cell Aggregations in the Near-wall Region of a Shear Flow*

**4:00 – 4:20**

Erin Byrne, Harvey Mudd College

*The Post-fragmentation Density Function for Bacterial  
Aggregates*

**University Hall 2727:**

- 3:30 – 3:50** Anna Varvak, Soka Univ of America  
*Generalized continued fractions: a new way of seeing the  
familiar*
- 4:00 – 4:20** Sonja Mitchell, UCSB  
*A Type B Version of Thompson's Group F*
- 4:30 – 4:50** Yen Duong, UC Santa Barbara  
*An overview of philosophies of math*

**University Hall 2700:**

- 5:00 – 6:00** Wrap-up with wine and cheese

The EDGE Southern California mentoring network, the USC Women in Math, Loyola Marymount University, and the Department of Mathematics at Pomona College generously support the WiMSoCal Symposium.

**Organizers:**

*Alissa Crans*, Loyola Marymount University  
*Cymra Haskell*, University of Southern California  
*Ami Radunskaya*, Pomona College