



**NSF IGERT on Video Bioinformatics
Final (Sixth) Fall Retreat 2016
UCLA Conference Center, Lake Arrowhead, CA**

**Final Program
Meeting Location: Alumni Room**

Friday, September 16, 2016

4:00pm	CHECK IN
5:00pm - 6:30pm	OPENING RECEPTION (Tavern Room)
6:30pm - 8:00pm	Dinner
8:00pm - 8:30pm	Bir Bhanu <i>Welcome and IGERT program summary</i>
8:30pm - 9:30pm	Mark Alber, Distinguished Professor of Mathematics, UCR <i>Multi-scale modeling of blood clot formation</i>
9:30pm	<i>BREAK - SOCIAL (Tavern Room)</i>

SATURDAY, September 17, 2016

8:00am - 9:00am	BREAKFAST
9:00am - 9:50am	Xiaoping Hu, Professor and Chair, Department of Bioengineering UCR <i>Neuroimaging with MRI</i>
9:50am - 10:35am	Andre Obenaus, IGERT Faculty, Professor Loma Linda University Medical School & UCR <i>Vascular complexity: Implications for acquired injury</i>
10:35am - 10:45am	BREAK
10:45am - 11:15am	Vincent On, IGERT Fellow <i>Spatio-temporal pattern recognition of dendritic spines and protein dynamics</i>
11:15am - 11:55am	Asong Tambo, IGERT Fellow, Graduated in June 2016 <i>Computational modeling of dynamics of pollen tubes</i>
11:55am - 12:00pm	Group photo
12:00pm - 1:00pm	LUNCH
1:00pm - 1:30pm	BREAK
1:30pm - 2:30pm	Khaleel Abdulrazak, Associate Professor, Department of Psychology UCR <i>Neural mechanisms of active echolocation and passive sound localization by pallid bat</i>
2:30pm - 3:00pm	Atena Zahedi, IGERT Fellow <i>Using video bioinformatics to study organelles dynamics</i>

3:00pm - 3:30pm	Reed Harrison, IGERT Fellow <i>Conformational dynamics of factor H are altered in age-related macular degeneration risk-variant (Y402H)</i>
3:30pm - 3:45pm	BREAK
3:45pm - 4:15pm	Careen Khachatoorian, IGERT Fellow <i>Electronic cigarette exhaled aerosol residue (ECEAR): Does it present health hazard?</i>
4:15pm - 4:45pm	Giovanna Pozuelos, IGERT Fellow <i>Effects of thirdhand smoke pollutants on mouse neural stem proliferation and organelle dynamics</i>
4:45pm - 5:15pm	Belinda Tran Le, IGERT Fellow <i>Facial expression/emotion recognition</i>
5:15pm - 6:00pm	BREAK - Team Activity
6:00pm - 6:30pm	PRE-DINNER SOCIAL (Tavern Room)
6:30pm - 8:00pm	DINNER
8:00pm - 9:00pm	Federico Pala, Post-doctoral Fellow <i>Deep Learning</i>
9:00pm - 9:30pm	Adam Witmer, IGERT Fellow <i>Feature selection, classification, and cell counting of human embryonic stem cells using deep learning</i>
9:30pm	FACULTY MEETING (Alumni Room) STUDENT MEETING (Tavern Room)

SUNDAY, October 12, 2016

8:00am - 9:00am

BREAKFAST

9:00am - 9:50am

Ahmed Eldawy, Assistant Professor of
Computer Science, UCR
The era of big spatial data

IGERT DEMONSTRATIONS

9:50am - 10:10am

Asong Tambo, IGERT Fellow
*Automatic quantification of the dynamics
of tip growing cells*

10:10am - 10:30am

Atena Zahedi and Vincent On, IGERT
Fellows
*Classifying organelle shape/dynamics using
video bioinformatics*

10:30am - 10:50am

Belinda Tran Le, IGERT Fellow
*Facial expression/emotion recognition of
a driver on a racetrack*

10:50am - 11:10am

Adam Witmer, IGERT Fellow
Stem cell and deep learning

11:10am - 11:30am

Vincent On, IGERT Fellow
*Flow of cofilin in dendritic spines and
StemCellQC updates*

11:30am - 12:00pm

Student & Faculty Discussions

Meeting Adjourned

12:00pm

CHECK-OUT

12:00pm - 1:00pm

LUNCH