

CSBW 2014 – The 7th Computational Structural Bioinformatics Workshop

<http://www.cs.odu.edu/~lchen/CSBW.htm>

Saturday, September 20, 2014 (Location: Salon 4)

8:30am - 12:30pm

Held in conjunction with the ACM BCB'14 conference, Newport Beach, CA

Organizers: Jing He, Amarda Shehu, Nurit Haspel, and Brian Chen

8:30-8:40: Opening remarks (Jing He)

Session 1 (session chair Nurit Haspel)

8:40-9:00: “Orientations of β -strand Traces and Near Maximum Twist” Dong Si and Jing He

9:00-9:20: “A Computational Model for Data Acquisition in SAXS” Hui Dong and Gregory Chirikjian

9:20-9:40: Highlight talk - Nurit Haspel, University of Massachusetts at Boston

9:40-10:00: “An Analysis of Conformational Changes upon RNA-Protein Binding” Kannan Sankar, Rasna R. Walia, Carla M. Mann, Robert L. Jernigan, Vasant G. Honavar, Drena Dobbs

10:00-10:20: Highlight Talk - Jianlin Cheng, University of Missouri

10:20-11:00: Break + poster session

Session 2 (session chair: Kamal Al Nasr)

11:00-11:20: “Variational Bayesian Clustering on Protein Cavity Conformations for Detecting Influential Amino Acids” Ziyi Guo and Brian Chen

11:20-11:40 “Construction of Protein Backbone Pieces Using Segment based FBCCD and Cryo-EM Skeleton” Kamal Al Nasr and Jing He

11:40-12:00: “Improving Decoy Databases for Protein Folding Algorithms” Aaron Lindsey, Hsin-Yi Yeh, Chih-Peng Wu, Shawna Thomas and Nancy Amato

12:00-12:20 Highlight talk - Amarda Shehu, George Mason University

12:20 – 12:30 Concluding remarks (Amarda Shehu, Brian Chen)