



**BIOINFORMATICS 2017 Spring SEMINAR SERIES**

Hosted by: Department of Computer and Information Sciences,  
Department of Electrical and Computer Engineering &  
Center for Bioinformatics and Computational Biology  
<http://bioinformatics.udel.edu/Seminars/Current>

**MONDAY, March 13, 2017**  
**3:30pm**  
**DBI Room 102**

## **Programming Models and Tools for Bioinformatics**

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**ABSTRACT:** Next Generation Sequencing (NGS) is a promising technology to revolutionize cancer research, diagnosis, and therapy, reveals genomic, transcriptomic, and epigenomic landscapes of individual malignancies leading to plethora of information that are crucial in making an informed study for diagnosing and treating cancer. As promising this technology sounds, the price to pay is the time consuming sequence alignment step. Such computations can be made faster with effective programming software and tools. This talk will focus on exploring the state-of-the-art hardware and software technologies that could accelerate compute intensive portions of the algorithms without compromising on performance and accuracy.