

# IU Calendar

Event Information		SOIC Master Calendar IUB
<b>Title:</b>	Center for Bioinformatics Research Talk - Peter L. Ralph, University of Southern California	
<b>Sharing:</b>	Public	
<b>Start Time:</b>	Thursday, September 11, 2014 4:00 PM	
<b>End Time:</b>	Thursday, September 11, 2014 5:00 PM	
<b>Location:</b>	Indiana Memorial Union (Union Building)	
<b>Contact:</b>	Mike Lynch	
<b>Url:</b>	<a href="http://www.soic.indiana.edu/research/centers/bioinformatics.php">http://www.soic.indiana.edu/research/centers/bioinformatics.php</a>	
<b>Free/Busy:</b>	busy	
<b>Description:</b>	<p><b>Center for Bioinformatics Research Talk</b></p> <p><b>Speaker:</b> Peter Ralph, Computational Biology and Bioinformatics, The University of Southern California</p> <p><b>Where:</b> Oak Room, Indiana Memorial Union</p> <p><b>Topic:</b> Tools for understanding the geography of adaptation</p> <p><b>Abstract:</b> I will talk about several theoretical results of how species adapt in continuous geography, and one descriptive tool designed for use on data. I aim to answer the following questions: When does a species faced with a new selective pressure adapt as a unit, and when do different solutions to the same evolutionary problem arise in parallel in different parts of the range? What about the case of a patchy environment: i.e. when should local adaptations be shared versus heterogeneous? How could we distinguish the two? These questions have surprisingly elegant answers, thanks to stochastic tools going back to Fisher and Kolmogorov. I will also describe an inference method that infers relative strengths of simple geographic distance, environmental differences, or other (e.g. resistance) distances. The latter is implemented as an open-source R module (BEDASSLE, Bradburd, Ralph and Coop).</p> <p><b>Biography:</b> Peter Ralph did his PhD working on probability and statistics at UC Berkeley with Steve Evans, followed by a postdoc with Graham Coop at UC Davis. He is now faculty in the Computational Biology and Bioinformatics group at the University of Southern California.</p> <p><b>Poster</b></p>	
<b>Reminder:</b>	The reminder for this event will be sent by email 30 minutes before it occurs.	
<b>Cost:</b>	Admission Free	
<b>Contact Email:</b>	milynch@indiana.edu	