

IU Calendar

| Event Information | | SOIC Master Calendar IUB |
|-----------------------|--|--------------------------|
| Title: | Center for Bioinformatics Research Talk - Peter L. Ralph, University of Southern California | |
| Sharing: | Public | |
| Start Time: | Thursday, September 11, 2014 4:00 PM | |
| End Time: | Thursday, September 11, 2014 5:00 PM | |
| Location: | Indiana Memorial Union (Union Building) | |
| Contact: | Mike Lynch | |
| Url: | http://www.soic.indiana.edu/research/centers/bioinformatics.php | |
| Free/Busy: | busy | |
| Description: | <p>Center for Bioinformatics Research Talk</p> <p>Speaker: Peter Ralph, Computational Biology and Bioinformatics, The University of Southern California</p> <p>Where: Oak Room, Indiana Memorial Union</p> <p>Topic: Tools for understanding the geography of adaptation</p> <p>Abstract: 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>Biography: 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>Poster</p> | |
| Reminder: | The reminder for this event will be sent by email 30 minutes before it occurs. | |
| Cost: | Admission Free | |
| Contact Email: | milynch@indiana.edu | |