

ISTeC (Information Science and Technology Center) Research Advisory Committee
 Retreat on the Scientific and Engineering Foundations of Information Science and
 Technology
 Saturday, May 8, 8:15am to 3:00pm, Lory Student Center

DOSSIER

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| Name: | Mark Simmons |
| Department: | Biology |
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| Research Interests (one paragraph): I am a systematic botanist with interests in phylogenetic inference and simulations. For my conceptual research, I am working on problems such as: how alignment changes with increasing genetic distance, the trade-offs of using either nucleotide or amino acid characters, the incorporation of paralogous genes into phylogenetic analyses, the measurement of phylogenetic signal, and the use of phenotypic characters when entire genomes are sequenced. | |
| Titles of current research projects (funded or not): | |
| Current collaborations inside and outside your department: Colleen Webb (Biology) Aaron Reeves (Biology) Ward Fisher (Computer Science) | |
| Breakout sessions you would like to attend at the retreat (please rank order from 1 to 3): | |
| 2 | Alternative models of computing |
| 1 | Computing and information processing in support of basic science and engineering |
| | Dense sensor networks |
| | Imaging and tracking |
| | Automatic image, text, and speech recognition for multimodal interfaces and search engines |
| | Other (Please suggest a title.) |

Faculty at CSU whom you would like to see included into your preferred breakout group:
Colleen Webb
Sanjay Rajopadhye

One optional paragraph you would like other participants to read before the retreat: