

## STEM Graduate Traineeship Program

Find wisdom in information			C	IMPACT Long-term Outcomes
30/16	THEORY OF ACTION			U. yours
	Programs/ Activities	Outputs		
Inputs Funding Partners Volunteers Staff Consultants	<ul> <li>EDUCATION &amp; TRAINING</li> <li>-Recruiting for diversity</li> <li>-Developing and accrediting data science PhD (including internships)</li> <li>-Cultivating industry connections</li> <li>Big data symposium</li> <li>-Hands-on workshops</li> <li>-IGERT gatherings (e.g., retreats)</li> <li>-Co-advising</li> <li>CYBER INFRASTRUCTURE DEVELOPMENT</li> <li>-Building, using, and sharing tools, methods, algorithms</li> <li>RESEARCH AREAS</li> <li>Big data management</li> <li>Big data modeling</li> <li>- Collaborative big data science</li> <li>- Half-day seminars</li> <li>- Community seminars</li> </ul>	<ul> <li># of students completing IGERT program</li> <li># of internships</li> <li># of underrepresented trainees in program</li> <li># of and type of data science tools built, used, and shared in trainee dissertations</li> <li># of disciplines represented in faculty and trainee scholarship and advising trainees</li> <li># of courses developed or enhanced</li> <li># of hands-on workshops</li> <li># of interdisciplinary/collaborative research papers written together</li> <li># of papers written using data science knowledge and skills enabled/gained from IGERT</li> <li># of contact hours between trainees &amp; advisors</li> <li># of grants submitted together (from IGERT community)</li> <li># of posters and conference proceedings</li> </ul>		Increased quantity and diversity of thriving, interdisciplinary data science scholars and researchers Broaden the tools, methods, and algorithms (AKA modes) available and used for data- intensive discovery Add scientific questions that can be successfully tackled because of new modes of discovery Increased understanding of big data across disciplines
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