Research Fellow in Data Science

The Center for Computational Science (ccs.miami.edu) at the University of Miami focuses on data research, big and otherwise. We host one of the largest centralized academic cyber infrastructures in the country, providing our research community with the computational power and data management capabilities needed for cutting-edge research. Our software engineering team, in collaboration with colleagues all over UM, is developing tools that enable research in the medical, architectural, marine science, and engineering domains. Our focus areas include research that spans the physical, social, and natural sciences, music engineering, data visualization and cognitive science, and new urbanism architecture. CCS has a vibrant education initiative, offering training workshops and courses, empowering students, faculty and staff. Our outreach programs are working with the broader community to increase computational literacy across the board.

Position Description
All our research areas could potentially have an opening for a diligent graduate student with good interpersonal skills who has some knowledge of and an interest in computational research. Applicants must be familiar with command line scripting skills or GIS, and be able to integrate smoothly into our cross-disciplinary group.

Possible future initiatives in the humanities that the Center might be interested in developing and collaborating on include, but are not limited to, the following:

- Culturomics investigations in the computational science literature: the rise and rise of network algorithms.
- How have the Internet and social media changed the book publishing industry? Which types of books have maintained purchasing power, and which, if any, types of books have died out in the last decade?
- In a large corpus of documents, what topics appear in which documents?
- Can you classify documents into predefined categories based upon what terms appear in them?