



## CBIRI's Inaugural Research Informatics Symposium welcomes informatics investigators, students, postdocs, and mentors.

Meet, greet, and mingle with the Research Informatics Community and learn about the diverse research projects that span across molecular, clinical, healthcare and consumer data sciences. Find collaborators and synergistic research opportunities to build team science projects that encompass informatics research.

### 8:30 a.m. RECEPTION & BREAKFAST

#### 9:00 WELCOME

Kenneth Bayles, PhD, Vice Chancellor for Research, UNMC  
Martha Garcia-Murillo, PhD, Dean, College of IS&T, UNO  
Matthew Rizzo, MD, PI/Project Director, Great Plains IDeA-CTR, UNMC

#### 9:15 ABOUT CBIRI

Ann Fruhling, PhD, Distinguished Professor of College of IS&T, UNO  
Babu Guda, PhD, Professor and Asst. Dean for Research & Development, COM, UNMC

#### 9:30 KEYNOTE: Martin Hemberg, PhD

Assistant Professor of Immunology  
Harvard Medical School and Brigham and Women's Hospital  
**Therapy-associated remodeling of pancreatic cancer revealed by single-cell spatial transcriptomics and optimal transport analysis**

#### 10:30 BREAK

#### 10:45 FACULTY PRESENTATIONS (20 minutes each)

Bryant England, MD, PhD, Associate Professor, Division of Rheumatology, UNMC  
**Using Informatics to Leverage the Power of Real-World Data in Rheumatoid Arthritis**  
Dario Ghersi, MD, PhD, Associate Professor, School of Interdisciplinary Informatics, UNO  
**Making Precision Medicine more precise: open challenges and bioinformatics solutions in immunology and cancer biology**  
Babu Guda, PhD, Professor, Genetics, Cell Biology & Anatomy, COM, UNMC  
**Leveraging machine-learning tools for 'omics data integration and interrogation**

#### 11:45 POSTER PRESENTATION & LUNCH

CEC building, UNO

#### 1:00 KEYNOTE: Samir Chatterjee, PhD

Professor & Fletcher Jones Chair of Technology Design & Management  
School of Information Systems & Technology, Claremont Graduate University  
**Healthcare Innovation with Design and Artificial Intelligence: From Idea to Research to Commercialization**

#### 2:00 INVITED TALKS BY STUDENTS & POSTDOCS (20 minutes each)

Thomas Schulze, PhD candidate, College of Arts and Sciences, UNO  
**Strategic Leukocyte Enrichments to Enhance Single-Cell Transcriptomics for Drug Discovery and Development**  
Jerrod Anzalone, PhD candidate, College of Medicine, UNMC  
**Temporal Trends in Rural-Urban COVID-19 Therapies and Outcomes from the Alpha to Omicron XBB Variants**  
Rama Krishna Thelagathoti, PhD candidate, College of IS&T, UNO  
**Data-Driven Network Models for Analyzing Biomedical and Mobility Data in Health Informatics**

#### 3:30 CLOSING REMARKS

#### 3:40 ADJOURN

#### SUPPORTED BY:

UNO IS&T Dean  
UNMC VCR  
Great Plains IDeA CTR

#### KEYNOTE SPEAKER

Dr. Hemberg works on quantitative models of gene expression. His field of research is computational genomics, and he is primarily interested in developing novel methods and models to help understand gene regulation. He carried out his graduate work at Imperial College London and post-doctoral training at Boston Children's Hospital. He served as a Group Leader at the Wellcome Sanger Institute, UK, for seven years before accepting a faculty position at Harvard Medical School and Brigham and Women's Hospital in 2021.

#### KEYNOTE SPEAKER

Dr. Chatterjee's research focuses on healthcare informatics, AI/ML for social good, design science and persuasive technology. He has made significant contributions to the advancement of technology in the healthcare industry through Telemedicine. He is also an entrepreneur who took his ideas to research and commercialization. Dr. Chatterjee currently serves as Fletcher Jones Chair of Technology Design and Management at Claremont Graduate University.

#### QUESTIONS?

##### Contact

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