## NIAID Data Science and Big Data

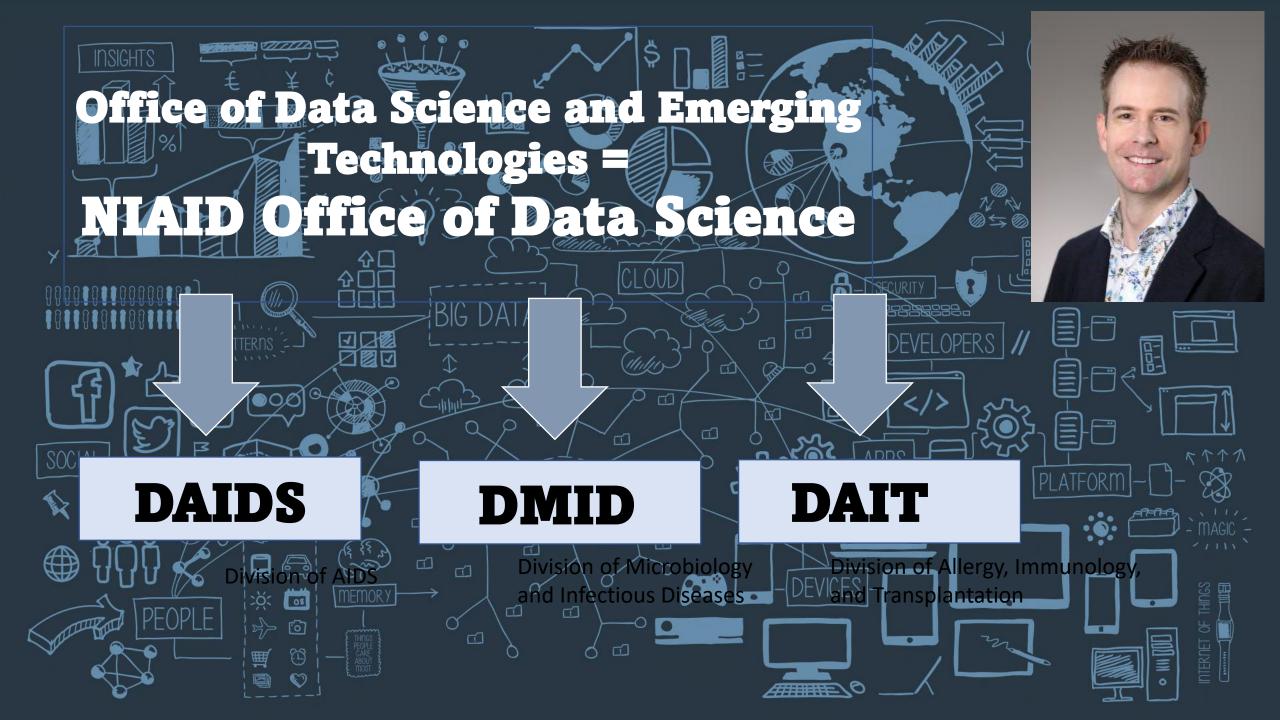
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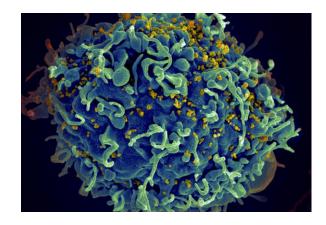






#### **DAIDS**

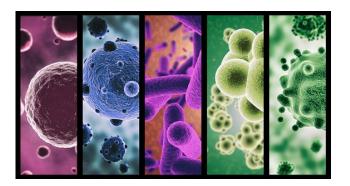
Division of AIDS

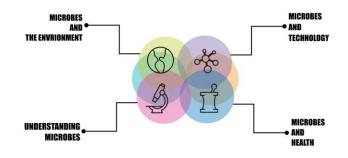




#### **DMID**

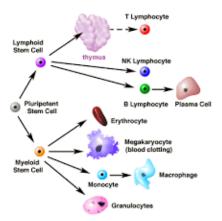
Division of Microbiology and Infectious Diseases

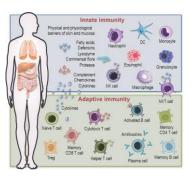




#### **DAIT**

Division of Allergy, Immunology, and Transplantation







#### PLOS DIGITAL HEALTH





RESEARCH ARTICLE

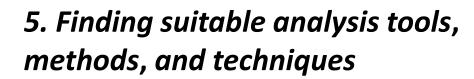
#### Challenges and best practices for digital unstructured data enrichment in health research: A systematic narrative review

Jana Sedlakova, Paola Daniore, Andrea Horn Wintsch, Markus Wolf, Mina Stanikic, Christina Haag, Chloé Sieber, Gerold Schneider, Kaspar Staub, Dominik Alois Ettlin, Oliver Grübner, Fabio Rinaldi, Viktor von Wyl . for the University of Zurich Digital Society Initiative (UZH-DSI) Health Community

Published: October 11, 2023 • https://doi.org/10.1371/journal.pdig.0000347



- 2. Standardization issues
- 3. Data quality: inaccuracies, bias, confounding
- 4. Infrastructure and Human Resources



- 6. Alignment with a research design and/or research question
- 7. Ethics & Legal Issues



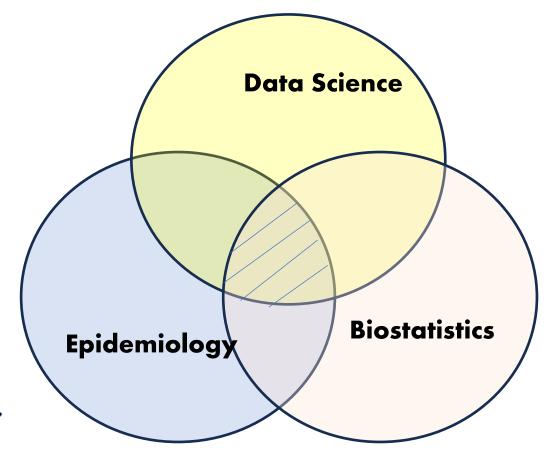
Harvard Data Science Review • Issue 2.2, Spring 2020

# On the Convergence of Epidemiology, Biostatistics, and Data Science

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Published on: Sep 29, 2020



"It is important to note that while increasing sample sizes (as the 'big data' movement is witness to) can increase the precision of an estimate, it does nothing to mitigate the effects of bias."



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SCIENTIFIC REVIEW

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### NLM's University-based Biomedical Informatics and Data Science Research Training Programs

https://grants.nih.gov/grants/guide/rfa-files/RFA-LM-21-001.html

The National Library of Medicine supports research training in biomedical informatics and data science at eighteen educational institutions in the United States. NLM's T15 program offers graduate education and postdoctoral training and research experiences in a wide range of areas including health care informatics, translational bioinformatics, clinical informatics, public health informatics, and consumer health informatics. Trainees will receive exposure to a core curriculum focused on biomedical data science concepts and methods as well as develop skills needed to lead independent future research. Some T15 programs offer an additional area of training in HIV/AIDS. Please contact T15 awarded institutions for questions related to trainee selection, eligibility, program specifics, and levels of support. The location of NLM T15 training institutions and contact information for awardees is provided in the interactive map below.