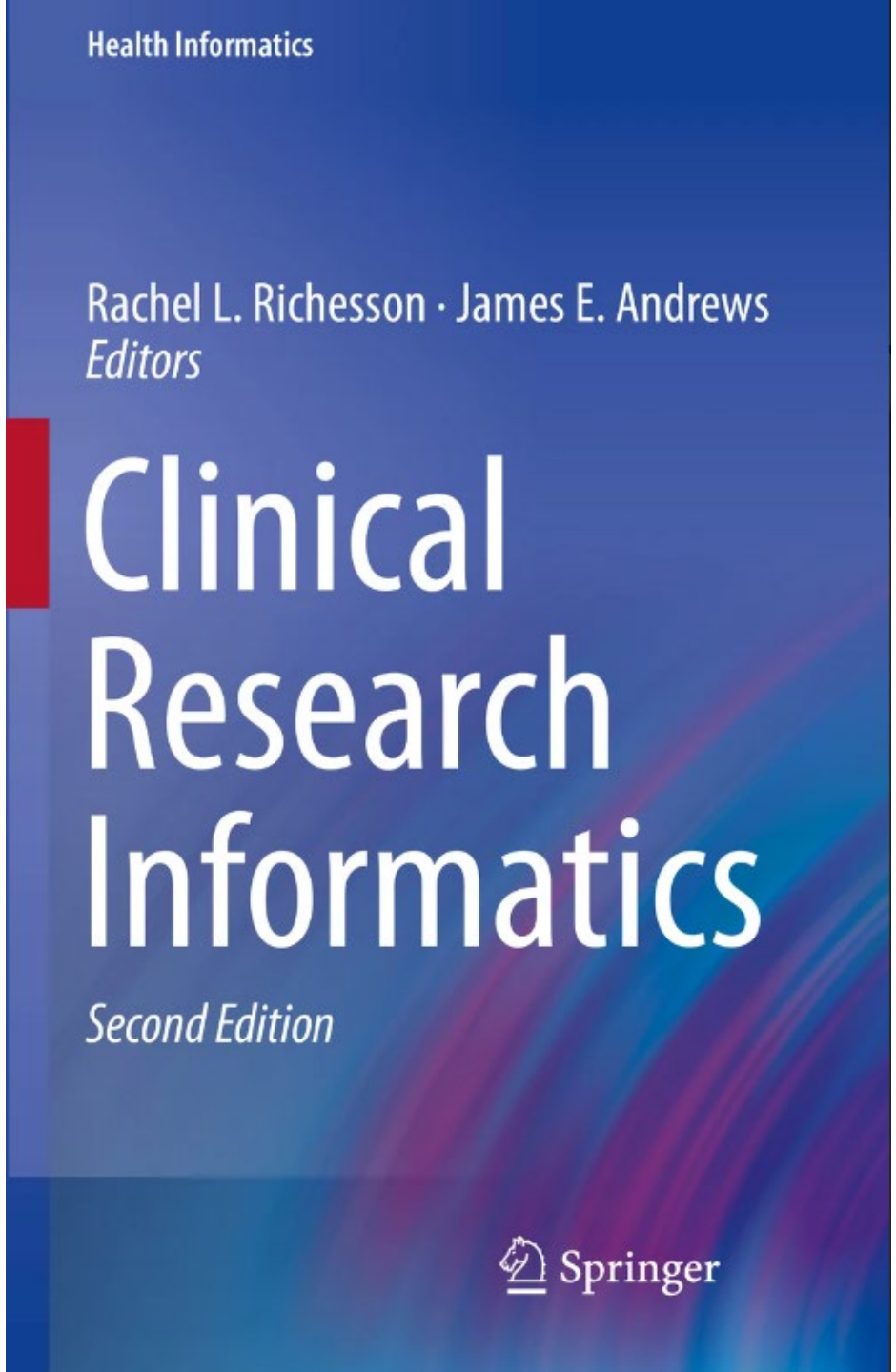
UCSF Clinical & Translational Sciences Training Program:

Clinical Research Informatics Postdoctoral (CRISP) Fellowship

https://crisp.ucsf.edu



Clinical Research Informatics involves **the use of informatics in the discovery and management of new knowledge relating to health and disease**. It includes management of information related to clinical trials and secondary research use of clinical data.

https://amia.org/about-amia/why-informatics/informatics-research-and-practice

Journal of the American Medical Informatics Association, 25(3), 2018, 223
doi: 10.1093/jamia/ocy008
Highlights

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Clinical research informatics: a growing subspecialization of biomedical informatics

Lucila Ohno-Machado

Editor-in-Chief

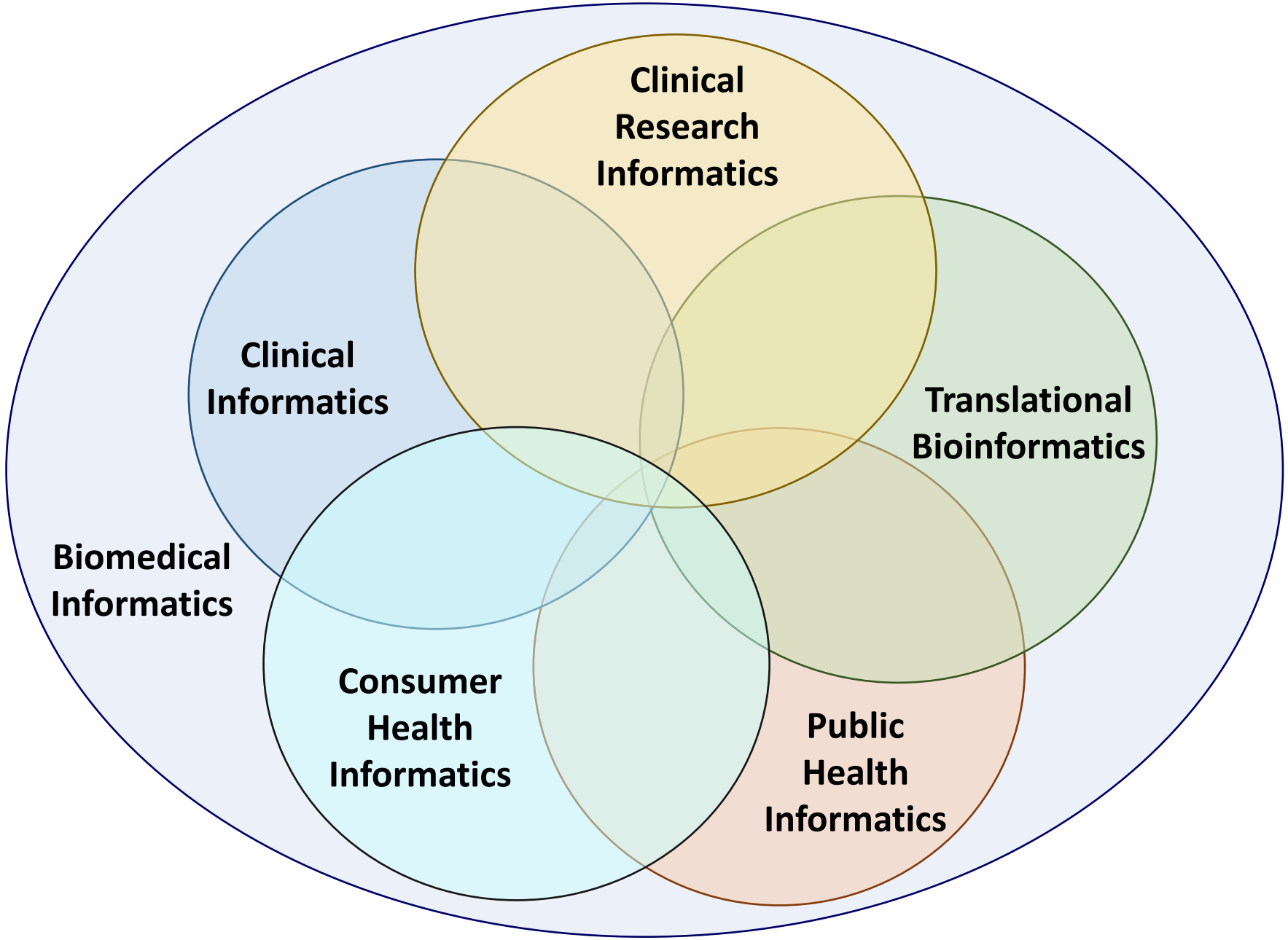
Journal of the American Medical Informatics Association, 28(1), 2021, 1–2
doi: 10.1093/jamia/ocaa312
Editorial

Editorial

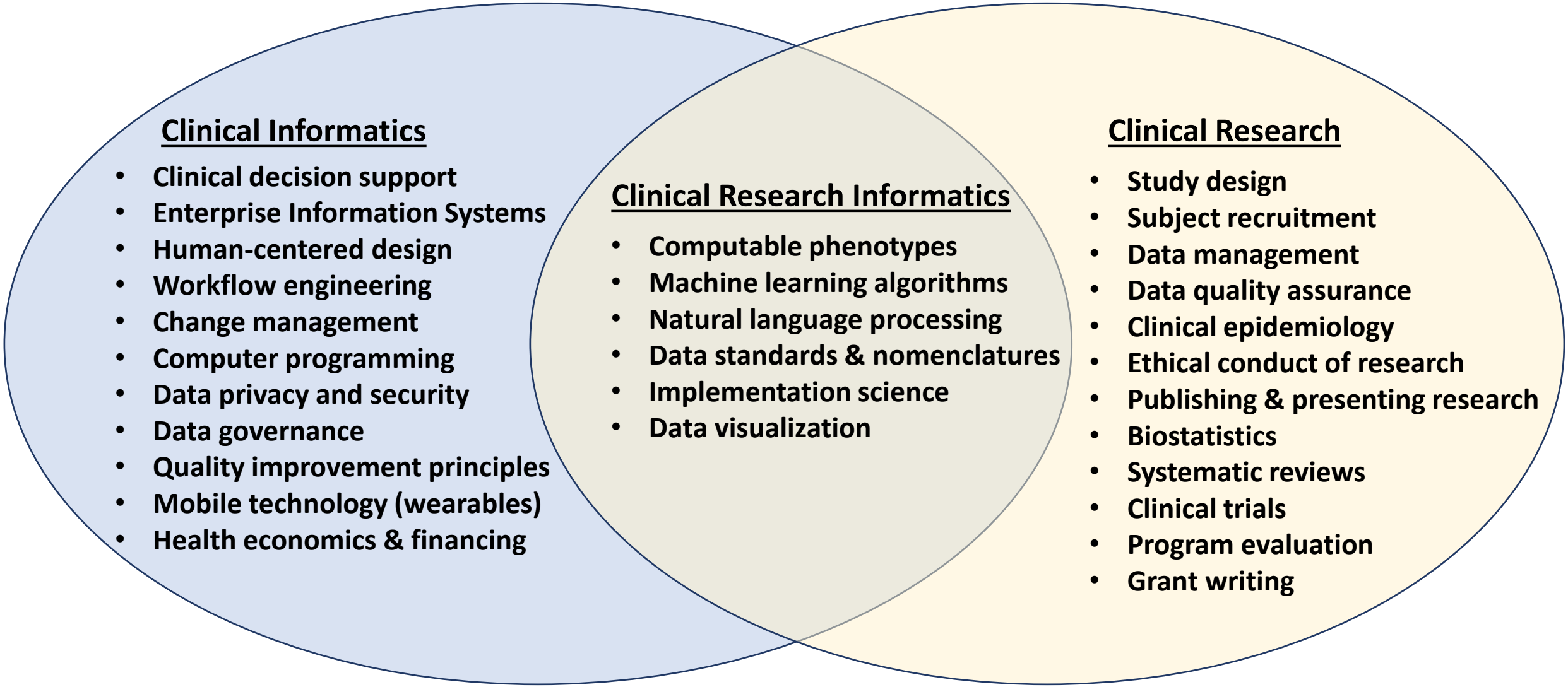
The maturation of clinical research informatics as a subdomain of biomedical informatics

Suzanne Bakken [1,2,3]

Five Domains of Biomedical Informatics (American Medical Informatics Association)



Overlap between clinical informatics, clinical research informatics and clinical research



Clinical Research Informatics: Combining research and operations in a learning healthcare system

CRISP Components

	Conduct a mentored research project.
	Attend weekly didactic sessions with UCSF (ACGME) Clinical Informatics Fellows.
	Participate in weekly work-in-progress sessions with the UCSF Quality and Informatics Lab.
	Join monthly Fellows Advancement Skills Training in Clinical Research (FAST-CaR) career development sessions.
	Continue clinical practice (20% effort).
	Complete coursework.

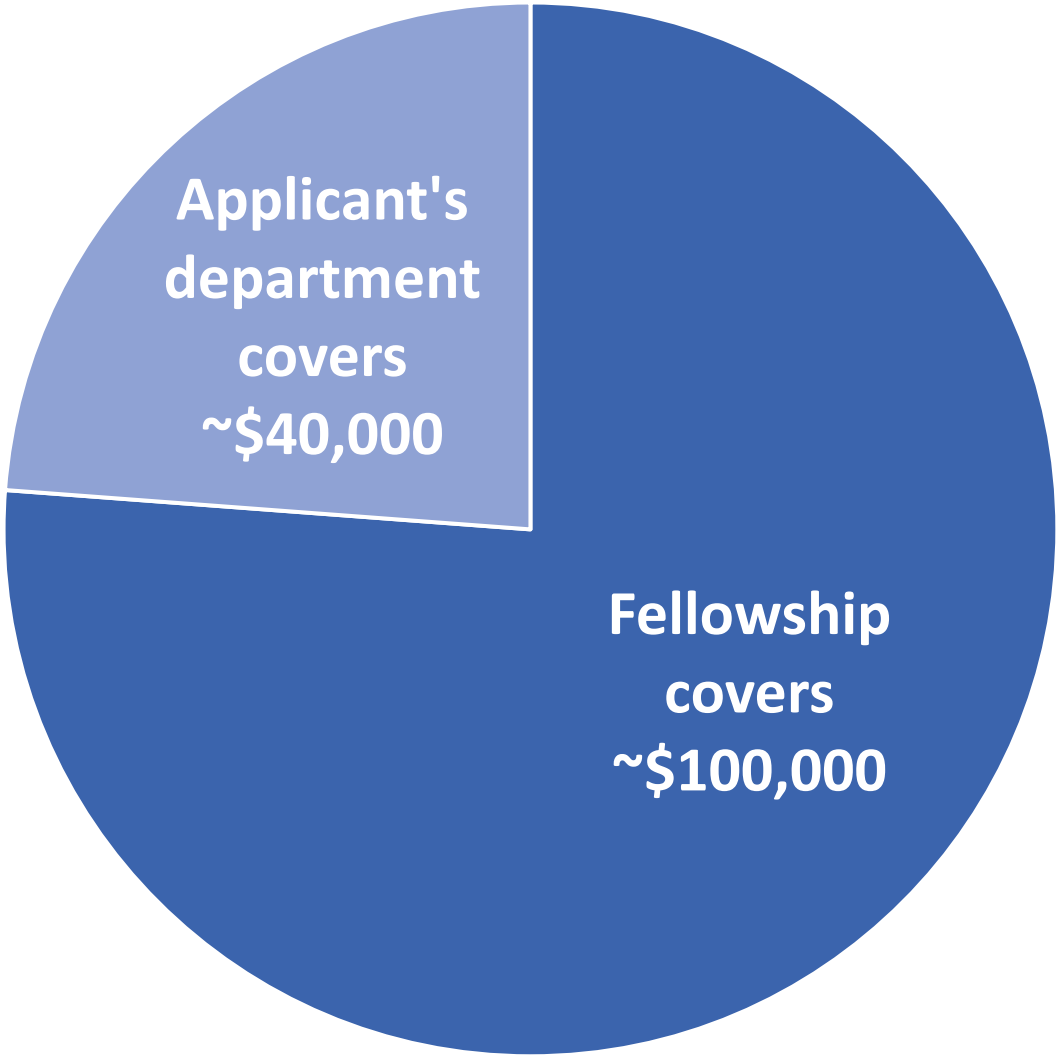
Course Options

	CRISP Program Recommended Courses https://crisp.ucsf.edu	Certificate in Health Data Science (CiHDaS) https://epibiostat.ucsf.edu/certificate-health-data-science
Summer	Responsible Conduct of Research (EPI 201)	Responsible Conduct of Research (EPI 201)
	Designing Clinical Research (EPI 202)	
	Introduction to Programming in R (BIOSTAT 213)	Introduction to Programming in R (BIOSTAT 213)
	Introduction to the Science of Big Data (BIOSTAT 202)	Introduction to the Science of Big Data (BIOSTAT 202)
Fall	**Clinical Epidemiology (EPI 204)**	Epidemiologic Methods I (EPI 203)
	Biostatistics for Clinical Research I (BIOSTAT 200)	Biostatistics for Clinical Research I (BIOSTAT 200)
	Advanced Programming in R (BIOSTAT 214)	Advanced Programming in R (BIOSTAT 214)
	TICR Program Seminar	Data Science Program Seminar
	Machine Learning in R (BIOSTAT 216)	Machine Learning in R (BIOSTAT 216)
	Biostatistics for Clinical Research II (BIOSTAT 208)	Biostatistics for Clinical Research II (BIOSTAT 208)
	TICR Program Seminar	Data Science Program Seminar
Spring	**Use of EHR Data for Research (EPI 231)**	
	Publishing and Presenting Clinical Research (EPI 212)	Advanced Machine Learning for Biomedical Sciences (DATASCI 225)
	Biostatistics for Clinical Research III (BIOSTAT 209)	Biostatistics for Clinical Research III (BIOSTAT 209)
	TICR Program Seminar	Data Science Program Seminar
	15 courses, 31 credits	**13 courses, 28.5 credits**

Eligibility

- U.S. citizen or permanent resident
- Doctoral degree
- Clinical license in a healthcare profession (medicine, nursing, pharmacy, dentistry, psychology, physical therapy, acupuncture, podiatry)
- Fewer than three years of prior funding through institutional or individual NRSA postdoctoral grants
- Applicant department must commit to covering approximately 30% ($40,000/year) of the costs

Annual Cost of CRISP Program



Department must cover:

- UCSF housing supplement (about $14,000/year)
- Difference between UCSF and NIH pay scales
- Uncovered tuition ($0 - $10,000/year)
- Miscellaneous expenses (e.g., travel, conference registration)

Application Review Criteria

Track Record
• Background and prior training: • Area(s) of expertise: • Number of coauthored publications since 2015: • Number of first author publications since 2015: • Number of grants (if any):
Research Plan
• Scientific strength • Clinical importance • Feasibility
Training Plan
• Commitment of the proposed mentors • Proposed coursework
Resources
• Workstation • Computer • Analytic support • Conferences
Likelihood of Pursuing Academic Career