

Broad Category	Examples of Detailed Categories
Statistical Methods & Modeling	Bayesian methods, Categorical data, Causal inference, Clustered data methods, Competing risks, Constrained estimation / order-restricted inference, Decision making, Empirical likelihood, Estimating equations, Exact methods, Experimental design, Functional data analysis, Generalized linear models, Graphical models, Hierarchical models, High dimensional data, Hypothesis testing, Joint models for longitudinal and survival data, Latent variables, Longitudinal data, Measurement error, Missing data, Multiple testing, Multivariate methods, Multivariate survival, Nonlinear models, Nonparametric methods, Ordinal data, Power analysis / sample size, Prediction / prognostic modeling, Random effects, ROC analysis, Semi-parametric and non-parametric models, Spatial / temporal modeling, Statistical graphics, Survey research data, Survival analysis, Time series, Variable subset selection / model selection
Data Science, Machine Learning & Computational Methods	Computational methods, Data mining / massive data sets, Machine learning, Dynamic treatment regimens, Imaging, Statistical graphics, Statistical genetics, Graphical models, Variable selection, Decision trees, Biomarkers, Biologics, AI
Applications in Medicine, Public Health & Biology	Clinical trials, Adaptive design / adaptive randomization, Diagnostic and screening tests, Personalized medicine, Translational research / science, Comparative effectiveness research, Cancer applications, Infectious disease models, Medical devices, Biopharmaceutical research, Pharmacokinetics / pharmacodynamics (PK/PD) modeling, Toxicology / dose-response, Surrogate markers, Health services research, Health policy applications, Environmental and ecological applications, Forestry / agriculture applications
Genomics, Omics & Emerging Biomedical Research	Genomics, Proteomics, Metabolomics, Biomarkers, Microarray analysis, Next generation sequencing, Genome-wide association studies, Statistical genetics, Imaging-based omics, Personalized medicine, Dynamic treatment regimens, Next generation sequencing (NGS), Genome-wide association studies (GWAS), Microarray analysis, Proteomics, Metabolomics
Professional Practice, Education & Cross-disciplinary Applications	Consulting, Education / teaching, Demography and population studies, Epidemiologic methods, Epidemiological study design, Defense and national security applications, Decision making, Biopharmaceutical regulation, Comparative policy studies, Forestry / agriculture applications