**CCI Biostatistics Expertise**

|  | Experience = ✓ Specialty = ★ | Nirajan Puri, MPH | Mahyar Heydarpour, PhD | Rie Maurer, MA | Zhou Lan, PhD | David Stein, PhD |
| --- | --- | --- | --- | --- | --- | --- |
| Methods/analyses | Categorical data analysis | ✓ | ✓ | ✓ |  | ★ |
| Clinical trial design & analysis | ✓ | ★ | ✓ | ★ | ★ |
| Computational statistics |  | ★ |  | ★ | ★ |
| Database design | ★ |  | ★ |  |  |
| Generalized linear models | ✓ | ★ | ✓ | ✓ | ★ |
| Item Response Theory |  |  |  |  |  |
| Longitudinal and dependent data | ✓ | ★ | ✓ | ✓ | ★ |
| Medical imaging |  |  |  | ★ | ✓ |
| Missing or mismeasured data |  | ✓ | ✓ | ✓ | ✓ |
| Multivariate data analysis | ✓ | ★ | ✓ | ✓ | ★ |
| Power analysis and design | ✓ | ★ | ★ |  | ★ |
| Population Health |  | ✓ |  |  | ✓ |
| Quality improvement | ✓ |  | ✓ |  | ✓ |
| Quasi-experimental research methods (e.g., interrupted time series, instrumental variables, regression discontinuity, difference-in-differences) |  | ✓ |  |  | ★ |
| Randomization | ✓ | ✓ | ★ |  | ✓ |
| Regression diagnostics |  | ✓ | ✓ | ✓ | ★ |
| Semiparametric or nonparametric methodology |  | ★ | ✓ | ★ | ★ |
| Statistical genetics and computational biology |  | ★ |  | ✓ | ★ |
| Survey analysis | ✓ | ✓ | ✓ |  |  |
| Survival analysis | ✓ | ★ |  | ★ | ★ |
| Areas of study | Allergy |  |  | ✓ |  |  |
|  | Emergency Medicine |  |  |  |  |  |
| Endocrinology |  | ★ |  |  |  |
| Epidemiology | ✓ | ★ |  | ✓ |  |
| Family Medicine |  |  |  |  |  |
| Gastroenterology |  |  | ✓ |  |  |
| Genetics |  | ★ |  | ✓ | ✓ |
| Health Policy Research |  |  |  |  |  |
| HIV/AIDS |  |  |  | ★ |  |
| Infectious Disease | ✓ | ✓ |  | ★ |  |
| Medicare |  |  |  |  |  |
| Pain | ✓ | ✓ |  |  |  |
| Prescription Drug Monitoring Programs (PDMP) |  |  |  |  |  |
| Pulmonary |  | ✓ | ★ |  |  |
| Radiology |  |  |  | ★ |  |
| Women’s Health | ✓ | ✓ | ★ |  |  |