2nd NISS Virtual Career Fair: NCI/NIH

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• 27 Institutes
• Largest institutes are NCI, NIAID, and NHLBI
• 5 Biostatistics groups in NCI
• Intramural versus Extramural
  • Extramural mission: support research at major universities and research centers
  • Intramural mission: Conduct independent-initiated methodological and collaborative research program (University at NIH)
My Career

- Staff Fellow/Senior Staff Fellow, Biometry and Field Studies Branch, NINDS: 1988-1994 (Intramural)
- Mathematical Statistician, Office of Biostatistics Research, NHLBI: 1994-1999 (Extramural)
- Mathematical Statistician, Biostatistics Research Branch, Division of Cancer Treatment and Diagnosis (DCTD/NCI): 1999-2009 (Extramural)
- Branch Chief and Senior Investigator (NIH Tenure), Biostatistics and Bioinformatics Branch, NICHD: 2006-2017 (Intramural)
- Branch Chief and Senior Investigator, Biostatistics Branch, Division of Cancer Epidemiology and Genetics (DCEG/NCI): 2017-retirement!
Job Opportunities at NIH

- Mathematical Statisticians (Extramural)
  - Ph.D. in Statistics/Biostatistics
  - U.S. Citizen requirements
  - Civil service positions (GS)
  - Title-42 positions for branch chiefs
  - Contractor positions for non-citizens

- Fellows and Investigators (Intramural)
  - Post-bac, pre-doc, and post-doctoral fellowships
  - Investigators (tenure-track) and Senior Investigators (tenured)
  - U.S. citizenship is **not** required
More on Mathematical Statisticians in Extramural

• Groups at NCI, NIAID, and NHLBI

• Methodological research is usually not required, but many statisticians have world-class research careers

• Duties include: Representing the institute on DSMB and steering committees for large clinical trials, protocol review, statistical consulting

• Occasional opportunities for mentoring fellows, but not the norm.
More on Investigators in the Intramural

- Groups at NCI, NICHD, and NIEHS
- Investigators need a postdoc (or equivalent) to get hired
- Similar to biostatistics department at university
- Duties include: methodological and collaborative research, mentoring fellows, and service
- Need to develop an independently initiated research program to get tenure
- Tenure emphasizes contribution to the mission of the institute
- 8-10 years on tenure-track
- Comes with resources: fellows, study data, etc.
Hiring of Statisticians at NIH (Intramural)

- DCEG/BB (Intramural) NCI is hiring!!
  - Investigator/Senior Investigator Position
  - Post-doctoral fellowships

- Postdoctoral fellows have come from:
  - Johns Hopkins
  - Michigan
  - Texas A&M
  - University of Hong Kong
  - University of Connecticut
  - University of Louisville
  - New York University
  - University of Maryland
Hiring of Statisticians at NIH (Intramural)

- Postdoctoral fellows
  - are 100% research positions!
  - start in the high 60s to low 70s k
  - flexible research program
  - BB has 10 postdocs with over 100 in DCEG
  - US Citizenship not required- hire on OPT or J1

- Predoctoral fellows
- Post-bac fellows
Recommendations to Students about First Job

• Take risks—Don’t play it safe
• Don’t take a position for the money. Money will come...
• Ideal job provides flexibility and freedom
• Look for a place that will broaden your horizon
• You probably will not spend your career there...
Thank You!!