Homework Assignment #13

Reflections

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Things that I have Learned from the Class, and How Can They Help Me in My Career

- The nuances of writing an award-winning NSF research proposal for funding.
    1. The differences between intellectual merit and broader impacts.
    2. How to write good research objectives.
    3. Finding a NSF "home program."
    4. Write a proposal based on how it would be reviewed.
    5. Connecting our research proposals to big ideas/challenges (such as data science) of NSF, NAE, DARPA, DOE, and/or other research funding agency.
    6. Prioritizing NSF funding opportunities over other funding opportunities as a tenure-track assistant professor in a U.S. research university.
- Carrying out synergistic activities.
- Networking and collaborating with professors (and researchers) from other disciplines/domains.

Things I would Like You to Remember About Me

- I love to collaborate on **interdisciplinary research projects**. Email me at: **ongz@acm.org**.
- I care a lot about **broadening participation** of women and people from underrepresented groups in research activities.
- I have **good intercultural competence**, and am **willing to relocate** to be a professor in any good research university around the world.

Some Questions I Have Now

- **How do we choose between job offers from average U.S. research universities and prestigious research universities outside the U.S.** (or, at least, regionally prestigious universities)**?**
    - Examples of non-U.S. universities: EPFL, ETH Zürich, TUM, Peking University, National Taiwan University, University of Sydney, top-5 IIT campuses, METU, Sharif University of Technology, UNAM, and Unicamp.
    - Categories of U.S. universities: not-so-famous tier-1 research universities (based on Carnegie Classification of Institutions of Higher Education), and better tier-2 research universities.

- **Can you please kindly help us decide between academic job offers?**

What I want to Say to the Class

- I would be grateful and honored for opportunities to do the following **for free**.
  1. **analyze your experimental/simulation data**, and
  2. **write research papers with you**,
  3. as long as you **allow me to be a co-author**
- I plan to be in the academic job market in 2-3 semesters.
  1. If you know of faculty openings in electrical engineering, computer engineering, computer science, and industrial and systems engineering, please kindly consider informing me about them.
  2. When you become one of the professors in faculty search committees, please kindly invite me to apply for faculty openings in your department.