Homework Assignment #1

Presentation About Myself

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Acknowledgments

Dott. Francesco Stefanni, formerly at the University of Verona, who provided me with a LaTeX template for presentation slides.

General Background

- Full name: Zhiyang Ong
- The name you prefer to be called in the class: Zhiyang (or Giovanni)
- Department: Electrical and Computer Engineering (ECEN)
- Adviser(s): Prof. Laszlo Kish
- Research topic: Designing computer hardware using noise-based logic.
- Starting and anticipated graduation dates: Spring 2014 and Spring 2020
- Hometown: In the last 20 years, I have lived in: Adelaide (Australia); Los Angeles (California); Trento and Verona (Italy); Taipei (Taiwan); Aggieland (Tejas).

Education Background

- Bachelor: Electrical and Electronic Engineering, 2005, University of Adelaide (AU)
- Master's: Electrical Engineering, 2008, University of Southern California (USC)
- Ph.D.: Electrical Engineering, 2020???, Texas A&M University (TAMU)
- Other universities that I have studied in or interned with:
  - University of Trento (internship)
  - University of Verona (graduate-level coursework in computer science)
  - National Taiwan University (graduate-level coursework in electronics engineering)

Self Assessment on Proposal Writing

- Knowledge about funding agencies (3 out of 10)
  - NSF (1 out of 10), and NASA (1)
  - DoE (0), DARPA (0), NIST (1), and AFOSR (1)
  - Facebook Research's Academic Programs (1)
  - Semiconductor Research Corporation's Global Research Collaboration (GRC) (2)
- NSF proposal writing (0)
  - PI or co-PI on about 0 proposals (including supplements)
  - 0 awarded (including supplements)
- Other research proposals co-authored (10 out of 10)
  - Prateek Tandon, Alex Mitev, Stanley Lam, Ben Shih, Zhiyang Ong, "Quantum Adiabatic Implementation of the Quadratic Traveling Salesman Problem (QTSP) and Applications," submitted to a Request for Proposal by the Quantum Artificial Intelligence Laboratory (NASA's Ames Research Center, Google, and the Universities Space Research Association), 2017. Status: Accepted

Self Assessment on Teaching

- Courses taught as instructor
  - *UNIX* course at the *Institute of Microelectronics, Singapore* (IME)
    - `https://eda-ricercatore.github.io/vecchi-progetti/technical-writing/UNIX_course_notes.pdf`
    - `https://eda-ricercatore.github.io/vecchi-progetti/technical-writing/UNIX_course_presentation_slides.pdf`
    - `https://eda-ricercatore.github.io/vecchi-progetti/technical-writing/UNIX_FAQ.pdf`
- Courses as grader: None
- Labs as helper: None
- Tutoring experience: Lincoln College (AU), volunteer academic tutor in residential hall
- Overall score: 5 out of 10

Self Assessment on Publications

- Journal papers (0)
  - 0 journal papers
  - No citation information
- Conference papers (3)
  - 2 conference papers, and 1 long abstract
  - Citation information: 2 citations
- Books (1)
  - 1 co-authored book
  - No citation information
- Overall score: 2 out of 10

Self Assessment on Network/Collaborating

- Collaboration within TAMU (1)
  - Computer Science
- Collaboration with national labs (0)
- Collaboration with industry (1)
  - SRC-funded project with Intel's researchers in Haifa, Israel and Hillsboro, Oregon
- Overall score: 1 out of 10

Self Assessment on Supervising

- PhD students (0)
- MS students (0)
- Undergraduate students (0)
- Mentoring experience (10)
  - Aggie Graduate & Professional Community Club (TAMU), mentor for undergraduates
  - IEEE student chapter (TAMU), mentor for IEEE Aggie Mentorship Program
- Overall score: 2 out of 10

How Can This Course Help Me?

- Writing winning grant proposals $\longrightarrow$ Most
  - Knowing funding opportunities
  - Formulating proposal ideas
  - Writing proposals
- Teaching $\longrightarrow$ Moderate
  - Giving presentations/lectures
  - Giving exams and grading
- Publishing $\longrightarrow$ Slightly
- Networking/collaborating $\longrightarrow$ not much
- Supervising $\longrightarrow$ None

Some Questions I Have Now

- Will this course be offered next semester?
- What other courses can help me getting ready for a faculty position?
- Can we use *GitHub* to carry out peer grading of our classmates' homework?
- Can we suggest questions for the midterm and final examination?
- How many research proposals do we have to submit?
- What topics do we have to give presentations on? Are they from the list of course topics in the course syllabus, or outside the course syllabus?
- Do we get to select topics for our presentations?