Q9. Mentor Research Application for Summer 2020 (June 1 - August 7)

Welcome to the UTHealth - Cancer Prevention & Research Institute of Texas (CPRIT) Fellowship in Innovation for Cancer Prevention Research - UTHealth’s training program for undergraduates, pre- and post-doctoral fellowships in cancer prevention.

This program goes beyond being a quality cancer education and career development program to focus on helping those seeking a career in cancer prevention and control research to learn to ask the important research questions, apply cutting-edge methods, and move the field of cancer forward.

We appreciate your willingness to take on the mentorship of one of our undergraduate trainees. This application will help orient you with the goals and expectations of our summer mentors and trainees.

All applications must be submitted by **11:59 PM on Friday, January 17, 2020**.

Q10. Faculty Mentor Information

Q1. First name

Kayo

Q2. Last name

Fujimoto

Q11. Phone number

713-500-9766

Q12. E-mail address

kayo.fujimoto@uth.tmc.edu

Q4. School/Campus Affiliation

- [ ] UTHealth School of Public Health- Houston
- [ ] UTHealth School of Biomedical Informatics
- [ ] UTHealth School of Dentistry
Q5. School/Campus Affiliation

This question was not displayed to the respondent.

Q13. Research Projects

Each fellow is expected to spend an average of 40 hours/week on his/her research project, organized seminars and innovation generation course.

Applicants will click on the titles of projects they are interested in to see the description. Give your project an inviting name! Acceptable projects do not need to be externally funded.

Q15. Project title

Projects Young Men's Affiliation Project; HIV intervention models for criminal justice involved substance-using Black MSM

Q14. Lay summary of the project (100 words maximum). Examples of project descriptions can be found here.

If pasting or deleting text into this field, please make sure to press the space bar after the last word in order to see your accurate word count.

The goal of YMAP is to (1) investigate complex social network contexts that surround young men who have sex with men (16-29 years old) and (2) to examine disease transmission mechanisms (HIV, syphilis, HPV, other STIs), their risk behaviors including substance use, their risks and preventions of acquiring these disease that may increase the risk of developing some types of cancer. The trainee will help manage and analyze social network data, combined with other unique attribute datasets. The trainee will conduct data science approach to analyzing longitudinal network, behavioral, and biological data, including longitudinal statistical models (e.g., multi-state Markov models) using social network data and deep learning methods for predictions. For this combined nature of using multiple methodology, trainee will be co-mentored by bioinformatics faculty.
Q16. Project will require contact with:

- Public
- Patients
- Biological samples
- Animals
- None of these

Q17. Does the project require IRB approval?

- Yes
- No

Q18. If yes, please provide the IRB number below.

HSC-SPH-12-0830

Q19. Does the project have a Laboratory Safety Procotol?

- Yes
- No

Q20. If yes, please provide the Protocol Number below.

This question was not displayed to the respondent.

Q21. Will the summer fellow be added to the protocol?

- Yes
- No

Q22. **End Products of Summer Fellowship**

Q23. **End products for all Fellows:**
1. Complete a project explicitly using the tools of innovative thinking.
2. Prepare and present a research poster on their project, including how you applied tools for innovative thinking.
3. Participate in the 90-second elevator speech competition.

Q25. **Project-specific end products (determined by Mentor):**

Examples:
1. GIS map to track whether and other environmental conditions for day laborer “corners” throughout Houston
2. Design for a social network platform for follow-up with research participants, manuscript on xxx to be submitted for publication
3. Abstract on yyy to be submitted to a scientific meeting

Presentation to a lay or scientific audience about using social networks analysis to study transmission of HIV and other STIs and risk-taking behaviors such as substance use among young men who have sex with men.

Q27. Fellows' Activities

Q28. Activities for all fellows:
1. Complete the Massive Open Online Course (MOOC) on Innovation Generation
2. Participate in weekly MOOC reviews and occasional cancer-related seminars in Houston and/or remotely via ITV
3. Apply the tools of innovative thinking in project discussions
4. Participate in two elevator speech workshops
5. Provide mid-course and final evaluation feedback
6. Meet with the preceptor or representative to discuss the training experience, progress, and challenges
7. Prepare and present a poster on the summer research
8. Present a 90-second elevator speech

Q29. Project-specific Trainee Activities (determined by Mentor):
Example: Fellow will commit to the design and analysis of a mini project YYY as part of a larger project

1. Trainee will attend weekly team meetings 2. Trainee will help input, manage, and/or analyze network and attribute, and biological data.

Q31. Learning Objectives:
By the end of the summer experience, the following objectives should be achieved.

Q32. Objectives for all fellows:
1. Describe and apply the tools of innovative thinking to increase creativity
2. Develop communication and presentation skills

Q33. Project-specific Learning Objectives (determined by Mentor):
Examples:
1. Fellow will be able to write instructions for low literacy audiences
2. Fellow will design a mini project with supervision
Q34. Are there any special fellow characteristics that would be desirable?
Examples: major, interests, language, or culture

1. It is desirable for trainee to be interested in various kinds of statistical methods using longitudinal data (e.g., multi-state Markov Models), modeling disease transmission mechanism, conducting social network analysis, and deep learning methods, applying and strengthening programming skills (R, python).

Q35. Mentor Responsibilities
1. Attend the closing ceremony (elevator speech competition and poster presentation) on August 7, 2020.
2. Provide feedback on the program experience to the program coordinator.
3. Meet with the fellow weekly to discuss training experience, progress, and challenges.
4. Encourage the use of the tools for innovative thinking.
5. Notify Dr. Mullen if the intern is not meeting the agreed upon responsibilities as early as possible to allow problem-solving.
6. Complete an evaluation of the fellow at mid-course and end of the program.

Q36. If you plan to delegate some of the supervision to another lab member, please list their name and contact information so that we can copy them on all correspondence.

<table>
<thead>
<tr>
<th>Full name</th>
<th>Angela Di Paola</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest degree held</td>
<td>MS</td>
</tr>
<tr>
<td>Job title</td>
<td>Graduate Research Assistant</td>
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<tr>
<td>E-mail address</td>
<td><a href="mailto:angela.dipaola@uth.tmc.edu">angela.dipaola@uth.tmc.edu</a></td>
</tr>
<tr>
<td>Phone number</td>
<td>713-500-9630</td>
</tr>
</tbody>
</table>

Q37. Will you be out of lab for more than 2 weeks during the training period (June 1, 2020 - August 7, 2020)?

- [ ] Yes
- [x] No
Location: (29.705596923828, -95.402000427246)
Source: GeoIP Estimation