Q1 Faculty Sponsor

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Q2 Type of Research:

Medical Informatics

Q3 Research Project Information - Please provide us with the following information on your project. You can submit up to 2 projects in this section.

1) Title of project:
   Predictive Modeling for early detection of Sepsis
   Duration: 1 year
   Time Commitment: 10 hours a week
   Specific Skills and/or experience required: data analysis, EHR
   Amount of time you are available for direct student supervision:
   Weekly meeting with the mentor and monthly group meeting

2) Title of project:
   Social support in SUD intervention
   Duration: 1 year
   Time Commitment: 10 hours a week
   Specific Skills and/or experience required: data analysis
   Amount of time you are available for direct student supervision:
   Weekly meeting with the mentor and monthly group meeting

Q4 Brief Description of Project 1 (2-3 sentences):

In this project, we develop predictive modelings to identify patterns in EHR data for early detection of sepsis. The predictive modeling may apply to other health conditions if applicable. We will also investigate how these patterns can be effectively communicated with the health professionals to support their decision makings. Please contact Prof. Chris Yang at chris.yang@drexel.edu or browse his web site at https://cci.drexel.edu/faculty/cyang/ for more information.

Q5 Brief Description of Project 2 (2-3 sentences):

Behavior intervention is conducted through online platforms for SUD patients. We will investigate the interaction patterns and how these patterns may improve the health outcomes. The types of social support, including informational support and emotional support, will also be identified to determine how effective they are in supporting the patients. Please contact Prof. Chris Yang at chris.yang@drexel.edu or browse his web site at https://cci.drexel.edu/faculty/cyang/ for more information.
Q6 Please indicate which type of research experiences your project is available (check all that apply)

- Research during the academic year (part-time)
- Medical Student Summer Research Fellowship Program (Summer - minimum 40 hours per week)
- Scholars Program (including summer)

Q7 Please indicate the level of training required, if applicable

Open to all medical students