Sponsor: Dr. Petr Janata (Meamer, Inc.)

Title: **Send-A-Song**

Background: Meamer is an early-stage startup, born of UC Davis research on Music-Evoked Autobiographical Memories (MEAMs), which aims to connect people through music and memories. The goal of this specific project is to develop *Send-A-Song* as one of Meamer's social media applications. Think of *Send-A-Song* as Instagram for music and memories.

Send-A-Song builds on MeamStream™ technology that powers the Music Memory Map project (http://musicmemorymap.org) at the Janata Lab at UC Davis. Backend technologies include Python/Django, MySQL, and AllegroGraph/SPARQL. The frontend applications are built out using JavaScript, HTML5, CSS/SASS. The project is deployed in Amazon Web Services (AWS).

Description: The basic ideas are that *Send-A-Song* allows users to attach memories to excerpts of songs and then circulate them as "MeamCards" among groups of friends. Recipients can attach their own memory as a reply to others who received the initial MeamCard. Users can view their collections of MeamCards from within the *Send-A-Song* app or within MEAMCentral (the current name of the Music Memory Map project's music/memory browser).

The client will provide a detailed description of how the existing codebase and functionalities are structured during initial group meetings. Various ways in which the Send-A-Song UX might be structured and gamified will be brainstormed with the client at these meetings.

Deliverables:

Depending on the interests and background of the group, *Send-A-Song* could be developed as a web-app running in a web-browser, as iOS/Android apps using Ionic, or as a native iOS app.

1) An aesthetically pleasing and responsive (web)app that integrates with existing MeamStream technology for:

- searching for and streaming music from Spotify
- associating memories with music

- viewing memories while listening to music
- managing and sending notifications
- maintaining relevant information in backend MySQL and AllegroGraph (RDF) databases

2) iTunes Store integration for beta-testing (if deployed as an iOS app)

3) Clearly and thoroughly documented source code maintained in a Meamer GitHub repository

Contact: ~4 hours of meetings with the client per month

Intellectual Property Rights: As a UC Davis student working on this project as part of your coursework, you hold the intellectual property rights for the code you write and other materials you create. Because this project is being performed for a start-up that is separate from UC Davis, you will be asked to transfer ownership of any intellectual property you create for this project to Meamer with no guarantee of compensation by Meamer. Please do not sign up for this project if these terms are not acceptable to you.