Example Projects

Roman Coins Project

Together with Classics professor Roberta Stewart, Research Computing staff are building on work by Diana Salsbury ’15 to develop a tool which allows users to store images and information about Roman coins, organize them into collections based around a scholarly theme, annotate the coins with respect to that theme, and lay out the data both spatially on a map of ancient Rome, and temporally on a collection-based timeline.

PollTrack Application

Building on the work of Herron, Stewart, et al studying the tradeoff between election resources and voter waiting, PollTrack is a new mobile web application to collect election day information. This application greatly simplifies the process for collecting data, but also adds geocoding and flexible ballot casting models that are used globally which in turn permits finer levels of analysis. Analysis of PollTrack data could help election officials determine an optimal allocation of resources and minimize in-line wait time for voters.

Across Campus Support

<table>
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<tr>
<th>Physics</th>
<th>Humanities</th>
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<tbody>
<tr>
<td>Thursdays, 10am-4pm Wilder 341</td>
<td>Tuesdays, 10am-12pm AHRC Bartlett 201</td>
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<tr>
<td>Susan A. Schwarz</td>
<td>John M. Wallace</td>
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<tr>
<th>Chemistry</th>
<th>Statistics</th>
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<tr>
<td>Tuesdays, 2pm-4pm Burke 3rd floor</td>
<td>Mondays, 2pm-4pm Silsby 010</td>
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<tr>
<td>John M. Wallace</td>
<td>Jianjun Hua</td>
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Geographic Information Systems

Tuesdays, 1:30pm-3:30pm
Baker Library Map Room

Stephen P. Gaughan

Life Sciences / Bioinformatics

Thursdays, 9am-12pm
DHMC 3rd floor atrium (between Williamson and Aud. E)
&
Tuesdays, 9am-12pm
LSC 1st floor atrium

Christian Darabos Ph.D.

for up-to-date office hours and upcoming events visit rc.dartmouth.edu

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- Grant Writing
- Geographic Information Systems
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- Source Code Management
- Life Sciences / Bioinformatics
- Digital Humanities

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Example Projects

Longbao Cultural Map Referencing and Vectorization

Working with a hand-drawn cultural map from the Longbao region of the Tibetan Plateau, the map was georeferenced to real-world locations and features from the map were converted to vector format for use in geographic information system software.

Brain Tumor Resection CrowdSourcing Project

The purpose of the project is to identify the best way to color fluorescent images of a brain tumor during fluorescence-guided neurosurgery so a surgeon can identify and remove the tumor completely. We will use non-expert participants on Amazon Mechanical Turk (AMT) to outline the fluorescent image of tumors using different color look-up tables and then use the AMT results to determine the most effective colormaps.

More Projects online at rc.dartmouth.edu