



## CMOP Undergraduate Intern Mentoring Opportunity

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Deadline: **March 28, 2011**

Selections Announced: **April 1, 2011**

Name/Title/Institution(s) of senior mentor(s): David Maier (Professor) PSU (not finalized)

Name/Title/Institution(s) of frontline mentor(s): Charles Seaton (Research Associate) OHSU

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**Project Title:** Development of an interactive data flagging interface

**Context for Project:** This project will take a working prototype interface for interactively flagging data quality, and develop it into a widget capable of being deployed in multiple contexts within the CMOP web-site.

**Brief Description.**

This project is intended to provide an improved method for data quality experts to flag CMOP data as bad, preventing the dissemination of erroneous data to researchers and educational users. It is also intended to provide a way for researchers and educational users to participate in the data quality process (crowd-sourcing data quality assessment, in the manner of the Solar Stormwatch project: <http://www.solarstormwatch.com/>) and to flag interesting features of data in a public manner. This project will enhance CMOP as a collaboratory, providing a channel for feedback between CMOP data quality experts, researchers, educational users, and the general public. This directly serves CMOP projects I.4.1, I.4.2, and III.3.3, and is useful across a broad range of CMOP projects.

**Proposed Outcomes/Broader Impact:**

This project will develop a useful tool for data quality flagging and for marking data of interest. This tool will be incorporated into the CMOP web site and will be used by CMOP data quality experts to prevent the dissemination of bad and suspect data, and will facilitate collaboration by allowing a wide variety of users to publicly comment on CMOP data.

**Proposed timeline (within a 10 week span):**

Week 1: Develop familiarity with CMOP database and user needs

Week 2-3: Develop prototype interface for entering flagging information

Week 4-5: Implement prototype

Week 6-7: Revise prototype

Week 8-9: Incorporate interface into development version of data explorer or station pages

Week 10: Documentation and presentation

**Intern academic experience and skill set should include:**

Computer science or anyone with web and database programming experience. A more experienced intern is probably required for this project.