The Problem

UG Students

Resources

Collaborators

Knowledge

Metaphors

Funding

ResearchWeb

UG Students

UG Students

UG Students

UG Students

UG Students
ORGANIZATION OF TEAM

Team Leadership

User Interface Team Leader
Manuel Lopez

Software Development Team Leader
Cory Knapp

Sub-Teams

User Interface Team (4 members)
Titilayo Craig
Sravya Dasari
Jeremy Geelen
Sarah Wahlstrom Helgern

Software Development Team (3 members)
Marcos Arroyo
Erhan Edlinging
Andrew Yates
PROBLEM SOLVING APPROACH

**IPRO 321 ResearchWeb**
- Programing Team
- Content Team

**Problem Definition and Research**
- Determine what makes a great website
- Survey stakeholders involved in undergraduate research

**Analysis**
- Decide on programming language and begin building framework
- Generate user needs and project specifications

**Synthesis**
- Add features to website, and fill site with content
- Gather and evaluate content

**Realization and Prototyping**
- Alpha and beta testing of ResearchWeb
- Marketing of research web
Why ResearchWeb?

Interest in a Website for Undergraduates to View and Apply for Research Positions
SURVEY RESULTS

Interest in Undergraduate Research Positions

Faculty in Establishing

- Yes
- Maybe
- No

Students in Having

- Yes
- Maybe
- No
CURRENT SOLUTION
ACHIEVEMENTS

- SRS
- Marketing
- Content

ResearchWeb
Ethical Challenges
## Risks

<table>
<thead>
<tr>
<th>Position</th>
<th>Lab</th>
<th>Departments</th>
<th>Deadline</th>
<th>Professor</th>
<th>Available?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computational study of a deterministic random walk</td>
<td>Discrete Applied Mathematics research group</td>
<td>Applied Mathematics</td>
<td>2010-05-07</td>
<td>Robert Ellis</td>
<td>No</td>
</tr>
<tr>
<td>Neovascularization in Regenerative Medicine and Diabetes</td>
<td>None</td>
<td>Biomedical Engineering</td>
<td>2011-12-01</td>
<td>Eric Brey</td>
<td>No</td>
</tr>
<tr>
<td>Researcher, Summer 2010</td>
<td>Computer-assisted graph theory</td>
<td>Computer Science, Applied Mathematics</td>
<td>2010-05-01</td>
<td>Michael Peismajer</td>
<td>No</td>
</tr>
<tr>
<td>X-ray Crystallography</td>
<td>None</td>
<td>Biological, Chemical &amp; Physical Sciences</td>
<td>2010-06-01</td>
<td>Joseph Orgel</td>
<td>No</td>
</tr>
</tbody>
</table>
FUTURE OF RESEARCH WEB
CONCLUSION

- ResearchWeb assists in the research process
  - Finding
  - Performing
  - Presenting

- ResearchWeb at work (after just 1 week):

<table>
<thead>
<tr>
<th>Unique Student log-ins</th>
<th>Faculty</th>
<th>Positions posted</th>
<th>Positions filled</th>
<th>Page views</th>
</tr>
</thead>
<tbody>
<tr>
<td>134</td>
<td>13</td>
<td>8</td>
<td>1</td>
<td>~2500</td>
</tr>
</tbody>
</table>
ACKNOWLEDGEMENTS

★ Gerald Doyle: Vice Provost, Undergraduate Admission and Financial Aid
★ Matthew Bauer: Director, Undergraduate Advising
★ Eric Brey: Assistant Dean, Office of Undergraduate Research
★ IPRO 321 Advisor: Robert Ellis
Thank you for your time

We welcome your questions and comments