

***THE DATA MINE:
ACADEMIC PARTNER WORKSHOPS***

Workshop #4: March 8, 2023

Agenda

January 25	Intro Stakeholders Students
February 8	Students Seminar Technical Support & Research Computing
February 22	Business Partnerships & Recruiting Industry Sponsored Projects
March 8	Corporate Partners Course
March 22	Legal CRP (cont.) Putting this into Practice (Q&A)

Please RENAME yourself in ZOOM:

University | Name

Purdue | Jessica Jud

Overview of Corporate Partners Course

- Student experience course with data driven projects from industry
 - Fall: 3 credits
 - Spring: 3 credits
- Agile-based project & course management
- Students work directly with industry mentors each week for 1 hour
- Mentoring by experts in industry and academia
- Full academic year long projects (August – May)

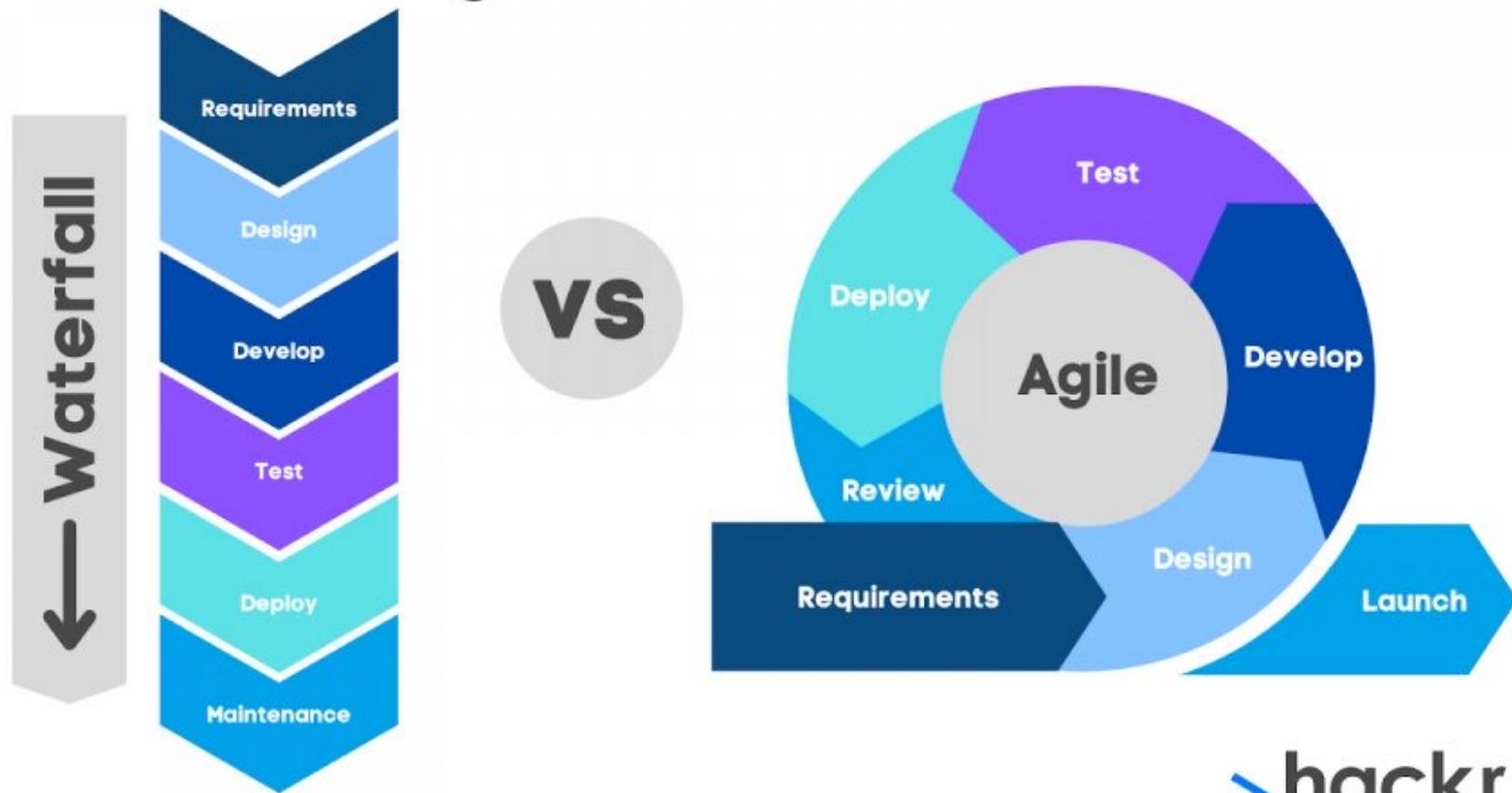


Agile Project Management

**applied to The Data Mine*

Waterfall vs Agile

Agile vs Waterfall



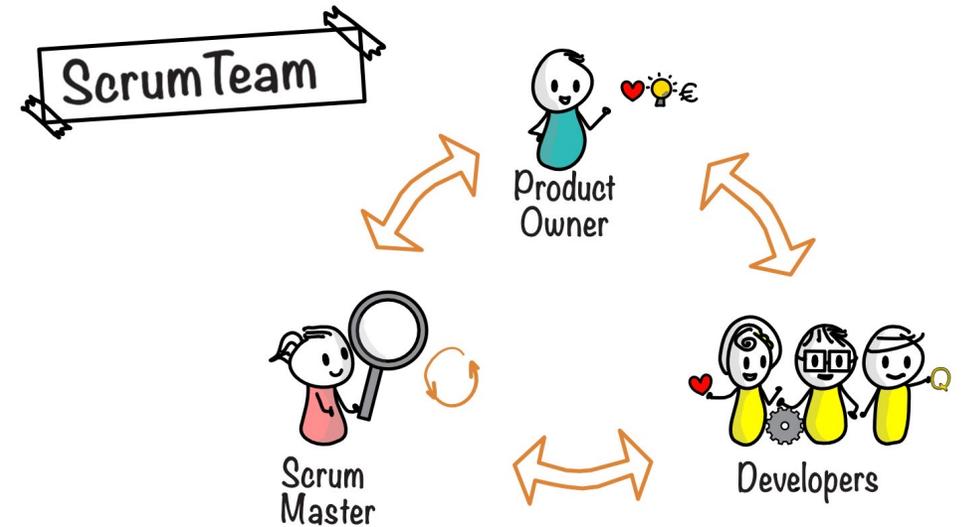
Roles

Corporate Partner Mentors →
Product Owner

TA → Scrum Master

Students → Development team

Faculty → Subject Matter Experts

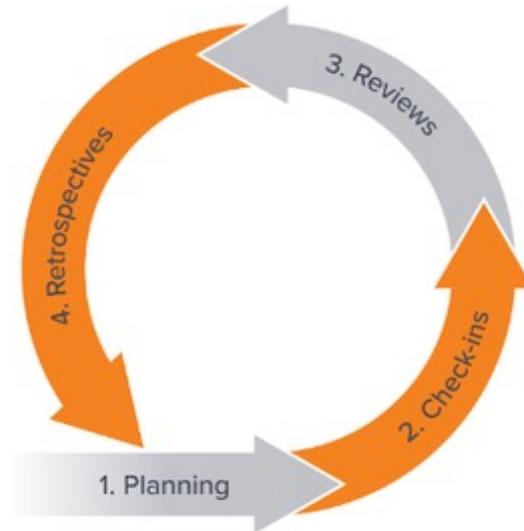


<https://the-examples-book.com/crp/agile/roles>

Ceremonies

- Sprint (2 weeks)
- Sprint planning
- Sprint review & retrospective

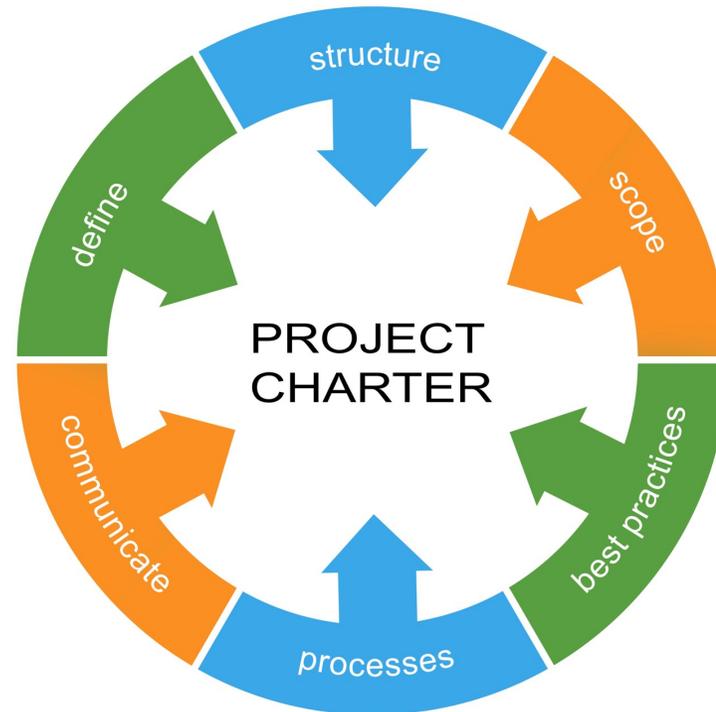
A Sprint in Agile



Week	Meeting (Mon/Tues) then Lab (Thurs/Fri)		Saturday	Sunday
	Monday	Tuesday		
	Lec (50 minutes)		Lab (1 hr 50 min)	
1	Sprint Planning			Open Development Time
2	Sprint Review			Sprint Retrospective and Open Development Time, Complete Retro Sprint Report
3	Sprint Planning		Sprint 1 Report DUE	Open Development Time
4	Sprint Review			Sprint Retrospective and Open Development Time, Complete Retro Sprint Report
5	Sprint Planning		Sprint 2 Report DUE	Open Development Time
6	Sprint Review			Sprint Retrospective and Open Development Time, Complete Retro Sprint Report
7	Sprint Planning		Sprint 3 Report DUE	Open Development Time
8	Sprint Review			Sprint Retrospective and Open Development Time, Complete Retro Sprint Report
9	Sprint Planning		Sprint 4 Report DUE	Open Development Time
10	Sprint Review			Sprint Retrospective and Open Development Time, Complete Retro Sprint Report
11	Sprint Planning		Sprint 5 Report DUE	Open Development Time
12	Sprint Review			Sprint Retrospective and Open Development Time, Complete Retro Sprint Report
13	Sprint Planning		Sprint 6 Report DUE	Open Development Time
14	Check in w/Mentors			Thanksgiving break
15	Sprint Review			Sprint Retrospective and Open Development Time, Complete Retro Sprint Report
16			Sprint 7 Report DUE	
	Final Presentations			

Project Charter

Project specific “syllabus”



About CRP

About the Company
About the Specific Department/Team
About the Mentor

Project Description

Summary
Objective
About the Data

Tentative Schedule

Getting Started

Goals/Milestones
Fall

Expectations

Team Composition
Teams/Roles



<https://the-examples-book.com/crp/mentors/projectcharter>

PRE-WORKSHOP “HOMEWORK”

Review the syllabus, specifically, the Student & TA section.

Questions?

<https://the-examples-book.com/crp/students/spring2023/introduction>

Learning Outcomes

1. Discover and **apply data science tools** to manage data sets from Corporate Partners through researching, cleaning, processing, analyzing, and visualizing data.
2. **Apply Agile project management methodology** to plan task ownership and decision making, collaborate with scrum teams to accomplish the increment during 2-week sprints, review the product backlog, and reflect on areas of success and improvement.
3. **Engage with peers** to identify and overcome complex challenges in the data sciences.
4. **Effectively communicate** findings of technical research through detailed documentation and team presentations.
5. Discover **professional development** opportunities in order to prepare for your career.

Grading

How do we grade a course with so many unique project scopes?

Grade Breakdown

Syllabus Quiz	1%
Read the syllabus and take the quick quiz on Gradescope. You may have the syllabus open while you take the quiz.	
Professional Development	2%
Select one of the professional development opportunities to complete.	
Agile 2-week Sprints	60%
Seven 2-week sprints each worth 10% of your grade. Your single lowest sprint grade will be dropped. You will turn in reports at the end of each sprint to summarize your work and check in.	
Corporate Partners Mentor and TA Evaluation	15%
Mid-Semester Evaluation	5%
Final Evaluation (cumulative of entire spring 2023 semester)	10%
Symposium	17%
Drafts (poster, video script)	5%
Final Poster, Final Video & Presentation at Symposium	12%
Final Report	5%
End of the academic year report to summarize your experience and provide feedback. Submitted on Qualtrics.	
TOTAL	100%

TAs

▪ Profile

- Typically an undergraduate student
- Think about who you know already
- Look for leadership skills and potential
- Experience leading clubs, sports, internships, etc
- Does not have to be technically proficient in DS

▪ Role

- Scrum master/project manager



TAs

▪ Responsibilities

- Leading 2-hour student lab
- Grading biweekly sprint reports
- Liaison between students, CRP Mentors, and TDM staff
- Scrum master
 - Keeps work on task during sprints
 - Removes roadblocks
 - Finds resources/help as needed



<https://the-examples-book.com/crp/TAs/introduction>

Symposium

- **Monday, April 24, 2023**
- **Poster Session 4 – 6 PM ET**
- **Purdue Memorial Union – North & South Ballroom**



<https://datamine.purdue.edu/symposium>

Yearly Rhythms

Summer

- Regular planning sessions with CRP
- TA placements
- Resource development

Fall

- Project Launch with students
- Background/domain learning & ramp up
- Final presentation (internal)

Spring

- Project moving along well
- Poster presentation at (public) Symposium
- Planning for next year starts

LET'S



TALK

PRE-WORKSHOP “HOMEWORK”

- 1. Read the Sponsor Acknowledgement**
<https://the-examples-book.com/crp/mentors/legal>

- 2. Check-in with your University’s Legal Office for student projects**

*Ex. Google “Purdue Legal student projects” to find this page:
<https://www.purdue.edu/legalcounsel/resources/Projects.html>*

WHAT'S NEXT?

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- All post-meeting materials will be posted on [The Examples Book](#)
- Questions? Email Jessica Jud at jljud@purdue.edu

THANK YOU