



Carleton  
UNIVERSITY

# COMP 5900: Mining Software Repositories

**Fall 2016**

**Instructor: Dr. Olga Baysal**



# Course Info

- Seminars are on **Thursdays** from **8:30-11:25**, UC 374
- No class on October 27 and November 17
- Course Website:
  - [http://olgabaysal.com/teaching/fall16/comp5900/comp5900\\_f16.html](http://olgabaysal.com/teaching/fall16/comp5900/comp5900_f16.html)
- Office Hours: by appointment

# Instructor

**Dr. Olga Baysal:**

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Website: <http://olgabaysal.com>

Email: [olga.baysal@carleton.ca](mailto:olga.baysal@carleton.ca)

Twitter: @olgabaysal

# A typical seminar

- You do the required readings of two research papers and come prepared to class
- Students do presentations and lead class discussion
- Participation! Participation! Participation!
- Weekly paper reviews (if you are not presenting)

# Evaluation

- Weekly paper reviews: 10%
- Class participation and discussion: 20%
- Paper presentations: 20%
- Course project: 50%

# Weekly Paper Reviews

- Each week you must pick **one** paper and write a critical review on it:
  - 500-1000 words long, submitted in **PDF** only!
  - Email it to me by 8:00 AM every Thursday
  - Email subject: “COMP 5900: Weekly paper review”
  - File naming scheme:  
COMP5900\_<StudentName>\_Review1.pdf
- If you are presenting that week, you are excused from doing a review

# Weekly Paper Reviews

1. Why did the authors write this paper?
2. What did they do?
3. How did they validate their work?
4. What are the strength and weaknesses of the approach or its validation? (e.g., 2-3 strengths and 2-3 weaknesses)
5. What did you learn from the paper?

# Class Participation

- Come prepared to talk and discuss papers and research ideas in class
- We all have an opinion! So please share it with others!
- Paper reviews (critical and controversial points) can serve as a starting point of your involvement in class discussions



# Paper Presentations

- Each paper will be presented by a single student
- Select two papers to present from the [list of papers](#)
- You can also check the proceedings of the past Mining Software Repositories (MSR) conferences <http://2016.msrconf.org/history.php>
- Email me your selection by **September 13**

# Paper Presentations

- Prepare a 25-30 minute conference style presentation on the paper and its ideas (use Keynote, Open Office, PowerPoint, or PDF)
- Prepare questions and lead a 15-30 minute discussion session about the ideas and work that you presented
- You can read additional related papers to help you design an interesting discussion
- Come up with your own provocative ideas on the topic
- Prepare to entertain us!
- Email me your slides (**PDF** only) before the class

# Course Project

- Done in a group of 2, solo projects are allowed
- Can be on the topic of your choice that relates to the course content:
  - An empirical study is always a good pick
  - You can also try [MSR 2017 Challenge](#)

# Course Project Deliverables

- **Project proposal** is due 08:00 AM, **October 6** via email (no marks but you need an approval from me)
- **Written report** is 8-10 page long, done in ACM LaTeX format (which is dense)
  - Submit by email by 8:00 AM, **December 16** (no extension)
- A 25-30 minute **project presentation** on the last day of classes (**December 8**), with slides

# Topics

- Mining software repositories (data extraction and analysis)
- Development team processes
- Software development tools and environments
- Software analytics
- Software visualization
- Mining social data
- Software evolution
- Quantitative and qualitative evaluation of software engineering research

# Upcoming Deadlines

- Select **2-3 papers** you would like to present (by September 13) and email your selection to me
- Find a partner to work on the project
- Start thinking about your project!

# Next Week

I will talk about quantitative vs. qualitative empirical studies in SE based on two of my own papers:

1. “Investigating Code Review Quality: Do People and Participation Matter?”, ICSME 2015
2. “Code Review Quality: How Developers See It”, ICSE 2016

Your Expectations?





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