

# Live Policy

You are **not** allowed to record, stream or distribute the session

**Mute** your microphone

Use the **raise hand** feature

Configure **your name** so that I can call you precisely

Praktikum

# Geometry Processing

## Organization

Ludwig-Maximilians-Universität München

# About



**Changkun Ou, M. Sc.**  
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Assistant



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Professor

# Pre-survey!

*What's your initial expectation about this course?*

<https://forms.gle/B5nDtMY695GsNDwY9>

### WS2021: Geometry Processing, Pre-survey

This is a pre-survey for students who is joining the practical course "Geometry Processing" at LMU Munich. This survey is anonymous, and thank you very much for your feedback.

Course homepage: <https://www.medien.fli.lmu.de/lehre/ws2021/gp/>

Changkun Ou <changkun.ou at [fli.lmu.de](mailto:fli.lmu.de)>

\* Required

What's your major? \*

- Medieninformatik
- Informatik
- Mensch-Computer\_Interaktion
- Mathematik
- Physik
- Kunst und Multimedia
- Bioinformatik
- Other: \_\_\_\_\_

I enrolled this course for my... \*

- Bachelor program
- Master program
- Personal Interests
- Other: \_\_\_\_\_

# Registration & Timetable *(tentative)*

- Register via [Uni2Work](#). **Important:**
  - Bachelor students
    - <https://uni2work.ifi.lmu.de/course/W20/IfI/GP>
  - Master students
    - <https://uni2work.ifi.lmu.de/course/W20/IfI/PGP>
- **Time: Monday 14:00 - 18:00**
  - 14:00 - 16:00 Topics of the Day
  - 16:00 - 18:00 Discussion & Hacking
- **Zoom: <https://lmu-munich.zoom.us/j/98754182746>**
  - **Password: <sent-via-uni2work>**

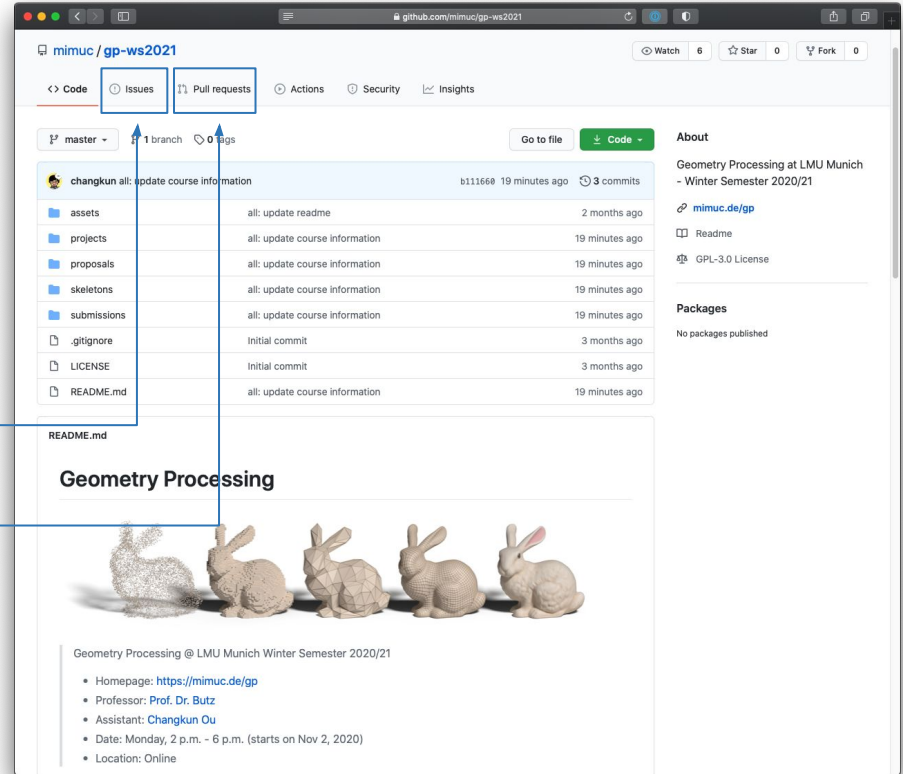
Dates	Title
02.11.2020	Introduction
16.11.2020	Discrete Differential Geometry
30.11.2020	Smoothing
14.12.2020	Parameterization
11.01.2021	Remeshing
25.01.2021	Deformation
08.02.2021	Data-driven Shape Analysis
22.02.2021	Guest Talk: Industrial Modeling
01.03.2021	Final Project Presentation

# Communications

- We use **Github** for all communications
  - <https://github.com/mimuc/gp/tree/ws2021>
  - Including skeletons, slides, submissions, ...

**Issues:** discuss your questions, project ideas, etc.

**Pull request:** submit your code, contribute to the course, etc.



# Grading (50%): Coding Projects

- Format similar to [SS20 CG1](#) tutorials
- Project difficulty depends on the actual topics
- (50%) You can decide to do **5 out of 6** given projects (5x10%), or
  - feel free to finish them all (no bonus, but you will learn more)
- Project will be [released](#) as homework [after each session](#)
- Coding skeleton will be provided, most likely 100~1000 LOC
- [Solutions will be discussed](#) in the subsequent sessions

# Grading (50%): Individual Project

- (10%) Write a project proposal before you start implementing it
- (40%) Submit code and a 2~5 minutes presentation in video format
- Further details: <https://github.com/mimuc/gp/blob/ws2021/projects/README.md>

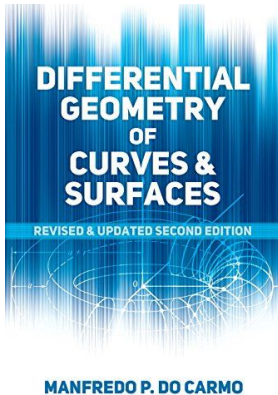
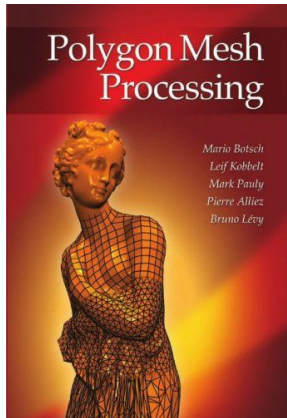


# Late & Cheat Policy

- Late submission: 0.005% subtraction for every minute late (2000 minutes tolerance)
- Cheating: You don't.
  - Coding projects will surround the re-implementation of well-known GP algorithms, workflows, etc.
  - If one sent a pull request, then he/she's the solution will be visible publicly
  - We will discuss the solution anyway
  - If you found someone plagiarize your submission, ask the person to stop privately; if you can't find consensus together, please talk to me
  - If you just want a pass, we do not recommend participation in this course
  - **You don't want to cheat because you take responsibility for your own study**

# Literature

- Botsch, Mario, et al. [Polygon mesh processing](#). CRC press, 2010.
- Do Carmo, Manfredo P. [Differential geometry of curves and surfaces](#): revised and updated second edition. Courier Dover Publications, 2016.



# Questions?