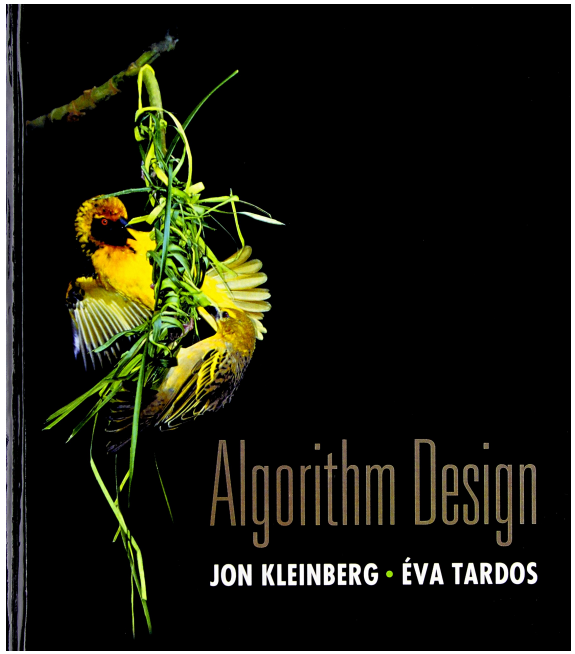
Basic Information

- Instructor: Hu Fu
- Office: ICICS-X539. Email: hufu@cs.ubc.ca
- Course website: http://fuhuthu.com/CPSC420F2019/index.html
  - Contains links to Piazza and Gradescope.
- Teaching Assistants:
  - Iliad Ramezani
  - Abner Turkieltaub abner7@cs.ubc.ca
  - Liam Vanderpoel liam1tvu@students.cs.ubc.ca

Course material

- We will cover selected topics from Chapters 7, 8, 11 and 13 from the textbook **Algorithm Design** by Kleinberg and Tardos.
- The textbook is required. It is the same one as required in CPSC 320.



Prerequisites

- Prerequisite: CPSC 320. You should be proficient with:
  - Asymptotic running time analysis (including big $O(\cdot)$ notations);
  - Basic data structures (stacks, queues, graphs etc.);
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- Let me know if we assumed in class something you haven't seen or have forgotten.

Course work

- Problem sets (30%) + Midterm (40%) + Final (30%)
- Midterm dates:
  - Oct 8, Tuesday, 7:30-9pm.
  - Nov 5, Tuesday, 7:30-9pm.
- Midterm location: DMP 310.

Course work

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- Midterm location: DMP 310.
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- We accommodate reasonable conflicts with the midterm times. Let me know ASAP.

Homework Policies

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- Some problems are more challenging than others. Discussion is welcome, including during office hours. Start thinking about the problems early; don't wait till the last day or two. Allow yourself time to think and to seek help.

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- **If you work with someone outside your group or use some outside source, you must acknowledge them in your write-up.**

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- We publish class performance statistics throughout the semester.

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- You are almost never asked to write pseudo-code. Use it as a last resort only if you can't express your ideas in other ways. (It suffices to say, e.g., perform BFS.)
- "Talk to humans" rather than "talk to compilers".
- In one word, train yourself in clear writing (and speaking) when communicating mathematical ideas.

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- Grasp mathematical definitions and statements rigorously.
- Do exercises. Memorizing the textbook and slides cannot replace solving a few problems.