# Reading seminars in 2022

## Second semester

### Schedule (contact: Li, Yanghepu)

- Default: 10am-12pm, Wed
- Oct 19, 26
- Nov 2, 9, 16, 30
- Dec 7, 21, 28
- Jan (2023) 11, 25

### Book

- dive_into_deep_learning.pdf shared by Yanghepu Li

| Date | Participants (* represents the presenter) | Contents |
|---|---|---|
| Oct. 19 | Tim; *Li-Yang; Wenruo; Wenlong; Rimsa; Rojan; Zhenyu | Dive Into Deep Learning: basic definitions/linear model/tasks/evaluations... |
| Oct. 26 | Tim; Li-Yang; Wenruo; *Wenlong; Rimsa; Rojan; Zhenyu | Dive Into Deep Learning: entropy/relative entropy/KL divergence... |
| Nov. 2 | Tim; Li-Yang; Wenruo; Wenlong; Rimsa; *Rojan; Zhenyu | Dive Into Deep Learning: multilayer perceptron |
| Nov. 16 | Tim; Li-Yang; *Wenruo; Rimsa; Zhenyu | Dive Into Deep Learning: CNN |
| Nov. 30 | Tim; Li-Yang; *Rimsa; Wenlong; Wenruo; Rojan | Dive into Deep Learning: modern machine learning models |
| Dec. 7th | *Li-Yang; Wenlong; Wenruo; Zhenyu; Tomoya | Dive into deep learning: recurrent neural networks |
| Dec. 21st | Li-Yang; *Zhenyu; Wenruo | Dive into deep learning: modern recurrent neural networks |
| Dec. 28 | Li-Yang; Rimsa; *Wenlong; Wenruo; Rojan | Network Science |

### Useful links

- Entropy, cross-entropy, and KL-divergence (provided by Tim)

## First semester on Graph Learning

- 10am-12am, Wed
- Book: “Graph Representation Learning” by William Hamilton, see https://www.cs.mcgill.ca/~wlh/grl_book/
- April 13, 20, 27; May 11, 25; June 8, 22; July 6, 20, 27

| **Date** | **Presenter** | **Material(s)** |
|---|---|---|
| April 13th | Zhenyu Zuo | notes_20220413.pdf |
| April 20th | Yanghepu Li | 20220420.pdf |

| Date | Presenter | Material(s) |
|---|---|---|
| April 27th | Wenruo Lyu | 20220427-Sec.2.2.2-Sec.2.3.1 |
| May 11th | Zhenyu Zuo | 20220511-sec_2.3.1-3.1.4.pdf |
| May 25th | Yanghepu Li | |
| June 1th | Zhenyu Zuo | |
| June 8th | Yanghepu Li | |
| June 15th | Wenruo Lyu | grl-sec5.3.3-sec.5.6.pdf |
| July 6th | Wenruo Lyu | grl-sec.7.1.4.3-sec.7.3.3.pdf |

## First semester on Machine Learning

| Date | Presenter | Content(s) |
|---|---|---|
| April 13th | Yanghepu Li | Introductions to the usage of Colab |
| April 20th | Yanghepu Li | Gradient descend and back propogation |
| April 28th | Yining Xu | Super basic introduction about OpenCV |
| May 12th | Zhenyu Zuo | Filters, Template Matching, and CNNs. |
| May 27th | Rojan Basnet | CNN |

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