Introduction to Data Science

Lecture 1.1 Introduction

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About me

Sangryul Jeon

Education and Professional experience

Pusan National University (2023.09~Present)
Assistant professor, School of Computer Science and Engineering

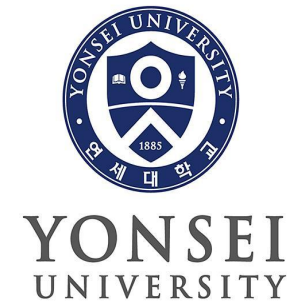**University of Michigan, Ann arbor** (2023.03~2023.08)
Postdoctoral scholar, Electrical Engineering and Computer Sciences Department

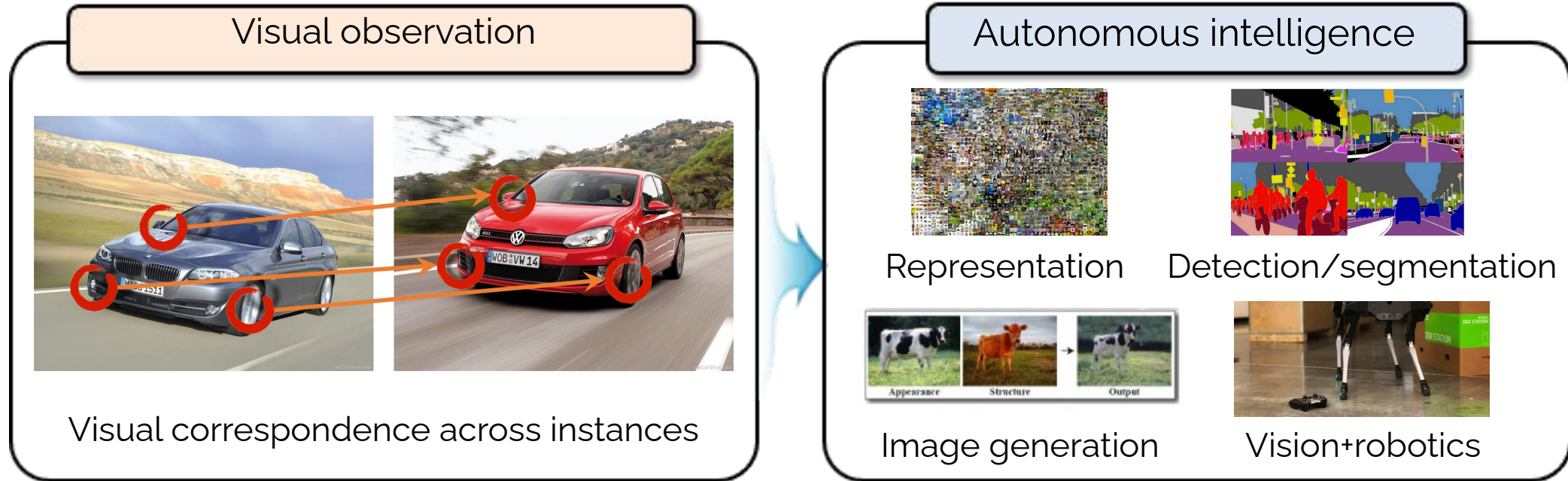**University of California, Berkeley** (2022.03~2023.02)
Postdoctoral scholar, Electrical Engineering and Computer Sciences Department

Adobe Research (2021)
Research Intern, Creative Intelligence Lab

About me

Visual observation

Visual correspondence across instances

Autonomous intelligence

Representation   Detection/segmentation

Image generation   Vision+robotics

1. **Jeon, S.**, et al., "Pyramidal Semantic Correspondence Networks", **TPAMI' 2022 - IF 24.314, JCR ranking 0.7%**
2. **Jeon, S.**, et al., "Guided Semantic Flow", **ECCV' 2020**
3. **Jeon, S.**, et al., "PARN: Pyramidal Affine Regression Network for Semantic Correspondence", **ECCV' 2018**

4. **Jeon, S.**, et al., "Mining Better Samples for Contrastive Learning of Temporal Correspondence", **CVPR' 2021**
5. **Jeon, S.**, et al., "Joint Learning of Semantic Alignment and Object Landmark Detection", **ICCV' 2019**

Course Introduction

❖ CB35533: Introduction to Data Science

▪ Mandatory Major class with 3 credits, newly added from 2020
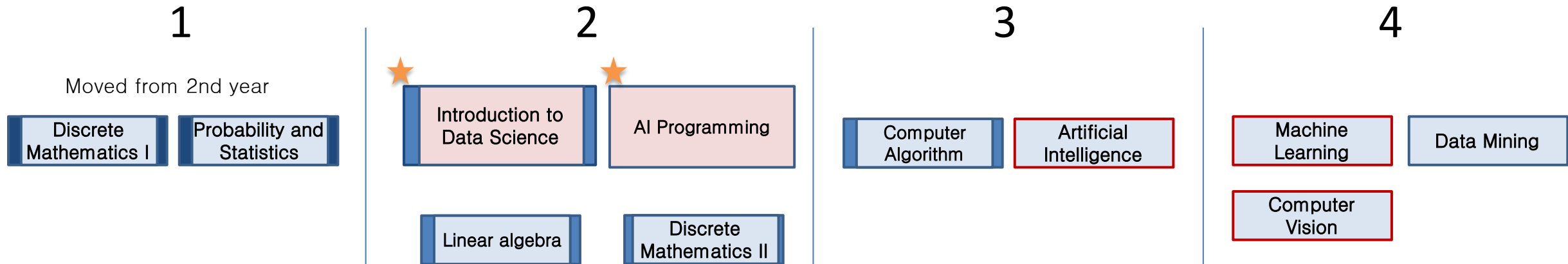
▪ Required courses: "Introduction to computer and programming" and "Probability and Statistics" courses

▪ This course will be acknowledged as Elective course for those whose student number starts from 2019

▪ Theory-based course, but we will practice it through the implementations during the class and HW

Text book

❖ Couple of text books are referred to prepare slides
  - PNU library eBook – O'Reilly for Higher Education

1. Doing Data Science – R. Schutt & C. O'Neil, O'Reilly, ISBN 9781449358655
   - 데이터 과학 입문, 한빛미디어

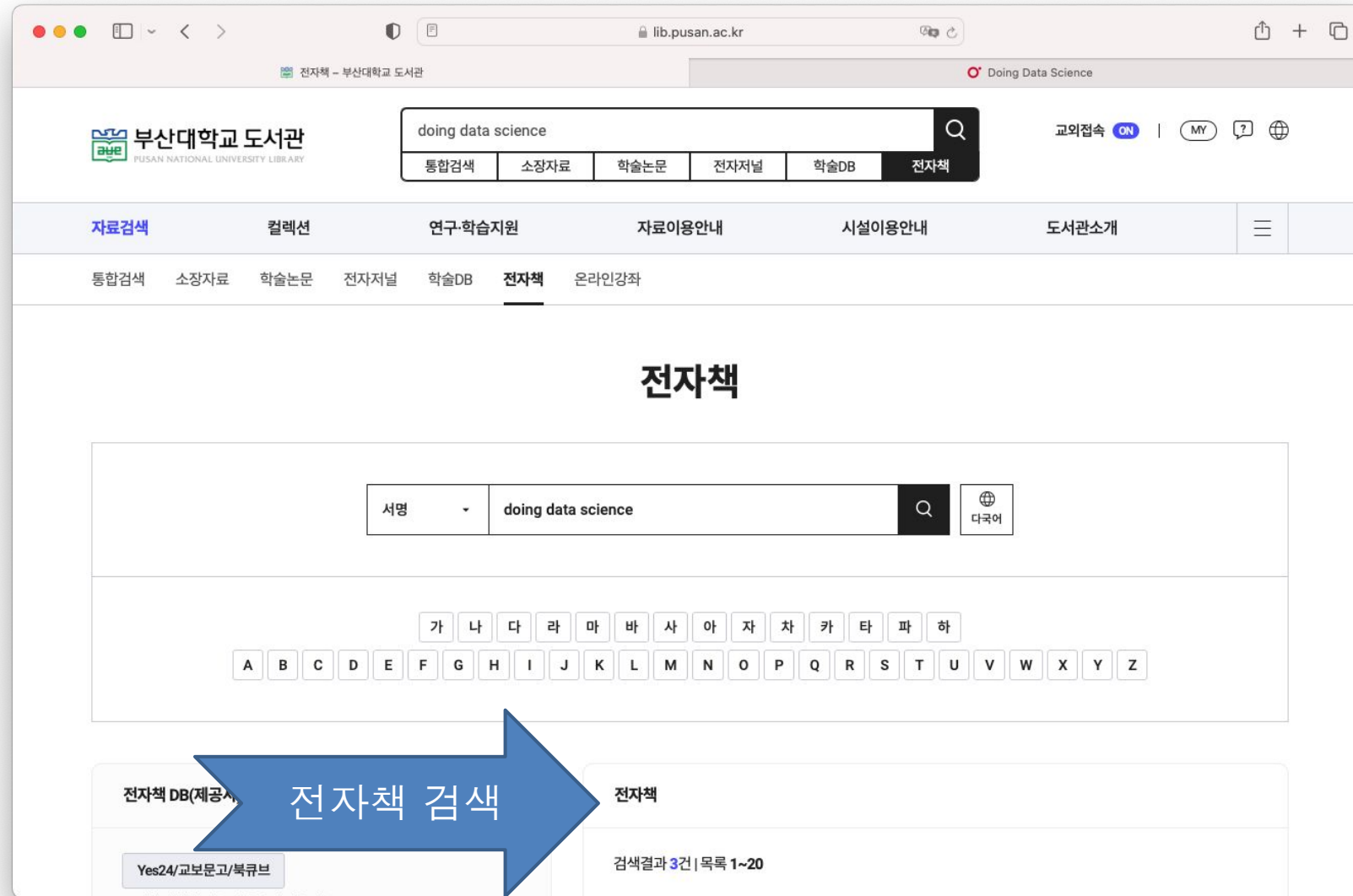2. Data Science from Scratch 2nd Edition, J. Grus, O'Reilly, ISBN 9781492041139
   - 밑바닥부터 시작하는 데이터과학 2판, 인사이트

3. Practical Statistics for Data Scientists, 2nd Edition, P. Bruce, A. Bruce, P. Gedeck, O'Reilly, ISBN 9781492072942
   - 데이터 과학을 위한 통계 2판, 한빛미디어
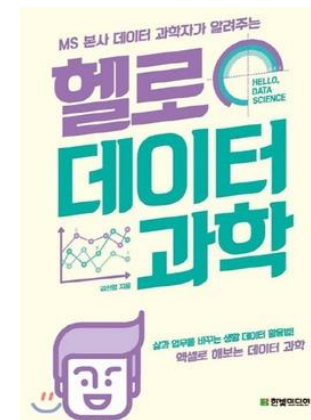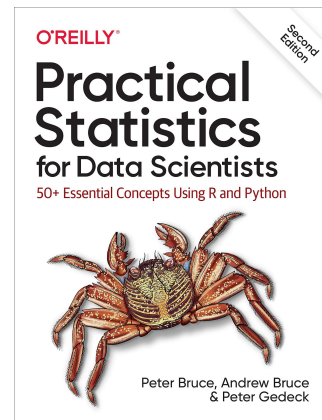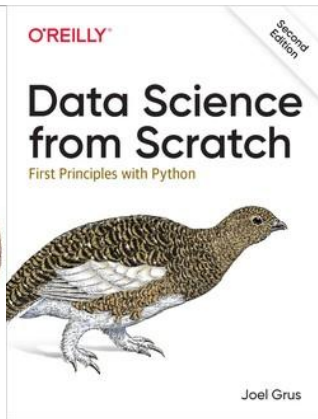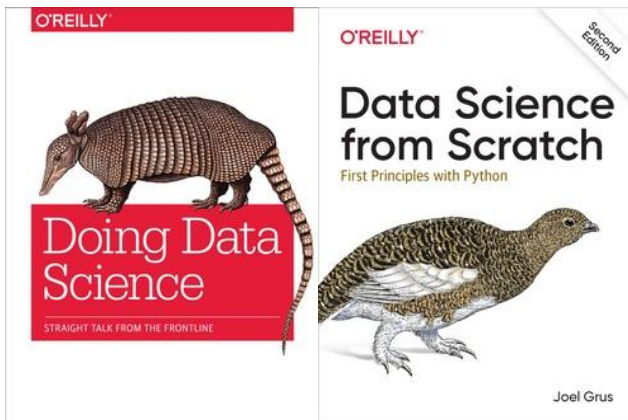
O'Reilly for Higher Education via PNU library website

Our tools

❖ **[PLATO](#)**

- Attendances, Notices, Slide materials, HW, Lecture videos for make-up classes, etc

❖ **Google Colab, Docs, Sheet**

- Based on Google Cloud

- We will utilize these for conducting HWs and their evaluations

- [Colab](#) / Google Sheet & Doc

❖ **Use @pusan.ac.kr account for colab**

❖ Python

❖ Markdown

Example of Plato website
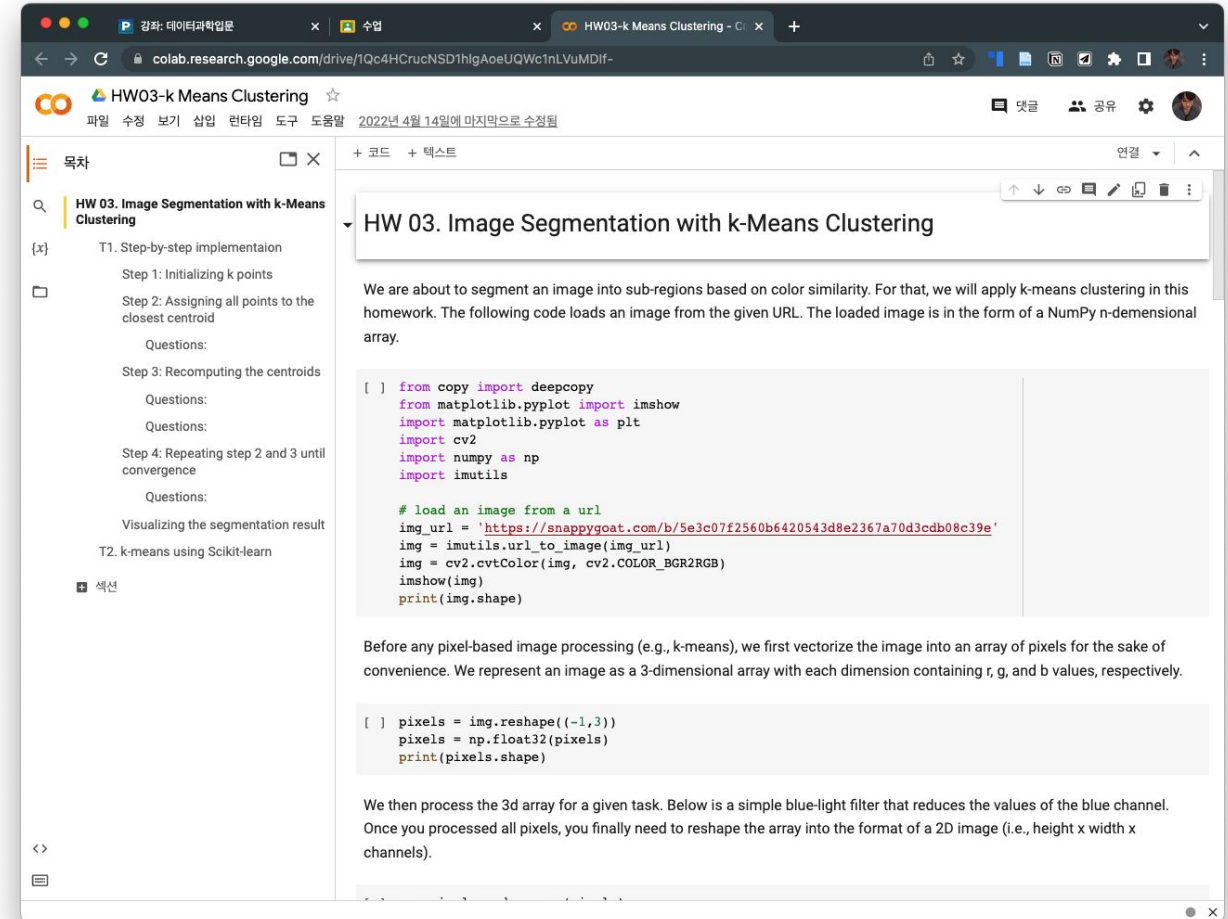
Example of Plato website

Grading policy

❖ Criteria

- Attendance 10%

- Quiz/lab/homework 30% - Half credit will be given for late submissions (until the release of solution)

- Midterm exam 30%, Final exam 30%

❖ HOW TO GET "F"

- Being absent over 1/3 of the total classes

- Being absent at the midterm exam

- Being absent at the final exam

- Copying HW from other students

Grading policy

❖ Ratio

Standard of PNU

- A+~A0 less than 50%

Internally just for CSE department

- A+ less than 15%

- A+~A0 less than 40%

- A+~B0 less than 70%

- Below C+ over 30%

Q&A

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