OH, TACKGEUN

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Education

M.S in Mathematics, Present / Yonsei University, Seoul, Korea

B.S in Mathematics, 2018, **B.A in Philosophy**, 2018 / Yonsei University, Seoul, Korea

Skills

Languages
-Python
-C/C++
-Speak Korean, English, Japanese

Machine Learning
-TensorFlow
-Pandas, NumPy, matplotlib
-Data Visualization, Data Cleaning, Data Preprocessing

Experience

=School Projects (Undergraduate and Graduate)

-**On the Middle of Cyclotomic Polynomial**. : June 2017

We read an article written by Gregory P. Dresden about the pairity of middle coefficient in a cyclotomic polynomial with a certain condition, and surveyed and explained the dropped part for undergraduate students in the field theory class. My part was the properties of the algebraic number, and, for a root ζ_n of cyclotomic polynomial, why $\zeta_n + \zeta_n-1$ should be an algebraic unit.

-**Semi-supervised learning with transfer learning for grasping classification** : May 2018

Using the bottle neck of Inception v-3 trained in ImageNet, we used semi-supervised learning for classification the image about grasping pose. We used transfer learning and learning-by-association, and confirmed that the accuracy rate is increased when we used both of them. Then, we added the unlabeled training set to the accuracy. Hence we also confirmed clear limitation,

because we can't teach the size of the object by just one picture.

=Study Group for learning basic linear algebra : December 2017 – February 2018

For non-STEM major undergraduate students who want to start coding, I made and ran a curriculum for basic linear algebra. The purpose of the curriculum that understanding the basic properties of a linear operator and SVD. I concentrated on giving the visualization of what happens in the linear algebra and actual computation skills

=NIMS Academy for Industrial Mathematics :   February 2019

I completed the whole course of the National Institute of Mathematics Academy for Industrial Mathematics. The contents of the academy were basic knowledge about python programming, data visualization with python libraries, using Keras for classifying Iris data, and how to handle the database with Pandas e.t.c

=Google Machine Learning Study Jam (intermediate course) : April 2019

=No-suseok Student's Self Library "노수석 생활 도서관" April 2011 to February 2015, June 2015 to June 2017

-Managing the database of the books : April 2013 - December 2016

I made the automatic system for managing the database of our library's books by spreadsheet. Also, I push forward to purchase more books about queer/ feminism.

-President : August 2015 – June 2017

I made a network between our library and Student's Self Library of Korea University, and help our staff to use our community as a self-help group, as the former tradition of our library before disconnection. We design a support project for youth film directors, having a critical mind at the tendency of Korea that asks the career to the junior. Also, we succeeded to support several teams and held the film screening for the movies supported by the project.

-Participate to hold the feminism seminar : December 2011, June 2014

We held the feminism seminar about feminism ethics for the community and masculinity.

-Solidarity project team for female temporary positioned workers who works in the Yonsei university campus May 2011 – December 2014

=The Gender Voyager, the group of the people against to gender binary system

"성별 이분법에 저항하는 사람들의 모임 여행자" : May 2017 - Present

The Gender Voyager is a self-help group of trans/genderqueer. There are almost 60 people who identify themselves as Transgender, Gender Non-conforming, Non-binary gender, e.t.c.

- participate in monthly self-help group and networking

- participate in improvisational theatre education program :

- give a presentation in the 10th Queer Right Forum : February 2018

The theme of our presentation was the excluded experience of trans/genderqueer from gay group, feminist group e.t.c. My part was the experience about the feminist group. It was about my ex-girlfriend, whom I met at the feminism study group and who was a lesbian activist and did dating-violence to me. Also, from 2015, "Trans-Exclusionary Radical Feminist" boom was started and some famous senior feminist abet spreading transphobic hate speech and fake news. The criticism to them was also a part of my contents.

- Performing the dance at the parade truck of Gender Voyage at the 2019 Seoul Queer Parade (Seoul Pride)

=Participation in Extracurricular Seminar/Colloquium/Forum/Class e.t.c

After the dating-violence experience in 2015, I felt the need for revealing the transgender's life and the importance of networking. Thus I participated in more extracurricular academic or business events about queer/feminism and STEM more than 25 places during 4 years[i], and I have tried to come out more and more. I try to make a network of queer or feminist doesn't exclusive trans/genderqueer right and especially who concern about STEM. Because I want to make a connection to the people who support trans/genderqueer right at STEM field, my future field.

More Details about Coding & Data handling Projects

=Making Automatic System for management of book list of No,suseok Student's Self Library

I make the system by spreadsheet because for the staff who don't know how to code. It has several sheets as a list of books, bundle searching function through a list of name of books or class number. The spreadsheet is consist of records of complete enumeration survey for real book,

and comparison between the result of the survey and the list of un-returned books.

=**Visualization about Real Estate Data**

At NIMS Academy, February 2019, the final test for completion was making own project based on class materials. I made a simple metric between data of real estate data, and I made a program that was showing the house which has the closest condition to the given user need. Further, I find the public data between Address and Geometrical coordinate and preprocessed and cleansed the data at the Address-Geometrical coordinate database. At last, I succeeded to visualize the houses has the closest condition to inserted user need at the map.

-**Technical Support to the parade performance of Gender Voyage at 2019 Seoul Queer Parade**

Using Web crawling technique, I made a program for making a database about basic information of songs for the playlist of the performance at parade truck belongs to Gender Voyage at Seoul Queer Parade from the streaming site. After the making database, I made a spreadsheet file to show the list about who participate in each song, making the order of playlist randomly, and the sheet made for the comfortable adjustment to the playlist.

Involvement

I was the President of "Yonsei Kichun", the student club of the traditional martial art of Korea from 2012 to 2014. I made the curriculum of practicing the martial art of our club systemically, and I tried to make the mood of our club nonhierarchical. Also, I tried to build a network to concern clubs to traditional culture. For example, I pushed forward a joint workout with the traditional martial art club at Seoul National University and the martial art performance at the Korean Traditional Clothes Party of Deoksung Women's University. Of course, I succeeded to hold the event for both cases.

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[i] **The List of the Events**

2015-05-19 Seoul Digital Forum (attending/STEM) / **2015-08-31, 11-25** Yonsei University Institute of Gender Studies Forum "Masculinity" (attending/Feminism)

2016-02-19 Free Humanities Camp Lecture "Modernity and perversion-boom" by Park-Cha, Minjung (attending/Queer/Feminism)/ **2016-05-30** Yonsei University Humanity Korea Project 51th Social science/Humanities Forum : "Sensitivity and (Lifetime) Reflection – How sensitivity could be the mediator of reflection" (attending/Feminism)

17-01-24 Publication Ceremony of "Guidance of Technology for Citizens" (attending/STEM) / **17-02-20, 03-20, 04-03** "Philosophy of Science vs Science" (attending/ STEM) / **17-03-24, 03-31, 04-07** Chang-bi special lecture "Feminism Dating Lecture" (attending/ Queer/ Feminism) / **17-09-28** Yonsei University Institute of Gender Studies "Gender Talk - Masplain" (attending/ Queer/ Feminism)/ **17-11-25** Korean Association For Studies of Philosophical Thought 53th Periodic Academic Forum "Woman and Philosophy" (attending/Queer/Feminism)/ **17-11-30** Lecture "Brain : Vulnerable organ to addiction" (stem/Et cetera minority issue) / **17-12-09** A Round Table Talk on the 20 years of The Center for Women's Culture and Theory "Feminism Trouble : Media, Subject and Controversy" " (attending/Queer/Feminism)

18-01-16, 18 Underscore - Mannual for Using LaTex (attending/STEM) / **18-02-10** the 10th Queer Right Forum (presentation/Queer/Feminism)/ **18-02** The Center for Women's Culture and Theory Feminism Philosophy Class by Kim, Eunjoo (attending/Queer/Feminism)/ **18-02-21** Yonsei University Center of Digital Social Science "Data Science Forum – Algorithmic Text Analysis at Social Science Studies and It's Application" (attending/STEM)/ **18-03-08** Mok-ha "Humanities and Social Science at the Data Science Era" (attending/STEM) / **18-03-17** Doing – "Basic Concept of Feminist Therapy" by Kim-Min, Yeasook (attending/ Queer/ Feminism)/ **18-04-21** Girls Robot – Korea Center for Women in Science, Engineering and Technology "Sisterly Conquer the World" (attending/ STEM/ Feminism)/ **18-05-03** "Feminism of Harm and Doing Harm" (attending/ Queer/ Feminism) by Kwon-kim, Hyeonyeong/ **18-06-26, 06-27** Doing – Feminism Lecture "The Face of Sexual Discrimination : Sexism, Second Sexism, Trans-sexism, Hetero-sexism", "Variety of Feminism" by Kang, Namsoon (attending/ Queer/ Feminism)/ **18-07-05** Table Talk for the book : "You Are Complete – Transgender, Discrimination and Health" (attending/ Queer/ STEM)/ **18-07-11** Girls Robot – "Right to Health of Sexual Minorities" (attending/ Queer/ STEM)/ 18-07-13 Girls Robot – Networking at New Industry (attending/ Feminism/ STEM)/ **18-08-09** Yonsei University Graduate School of Information Seminar – "Health Care Industry and Big Data" (attending/ STEM) / **18-09-03** "Queer Theology Special Lecture" by Ted Jennings (attending/ Queer/ Feminism)

19-01-10 ~ 02-28 Underscore – "Introduction to Web Crawling" (attending/ STEM)/ **19-01-19** Doing – Table Talk for the book : "Face the Life Straightly" by Choi, Hyeonsook (attending/ Queer / Feminism)/ **19-01-26, 27** 11st Queer Right Forum (attending/ Queer/ Feminism) / **19-02** NIMS Academy for Industrial Mathematics / **19-03-31** 1st conference for the discussion of gender : "The meaning of doing Transgender Activity in Korea" (attending/ Queer/ Feminism)